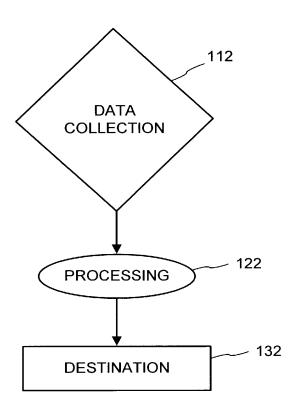
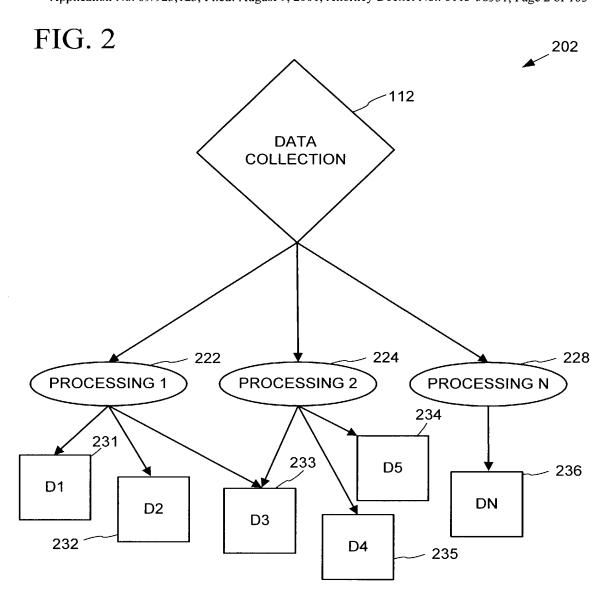
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street: Suite 1600 Portland Oregon 1 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 1 of 103

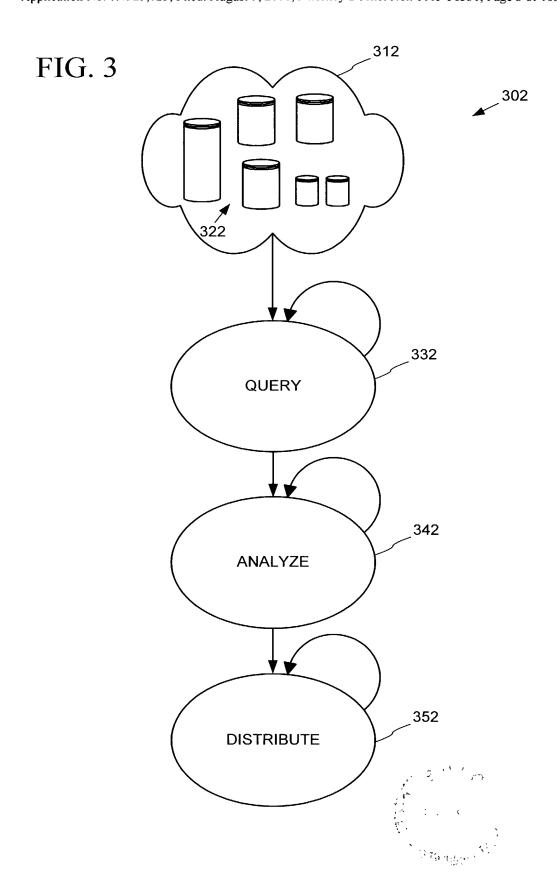
FIG. 1

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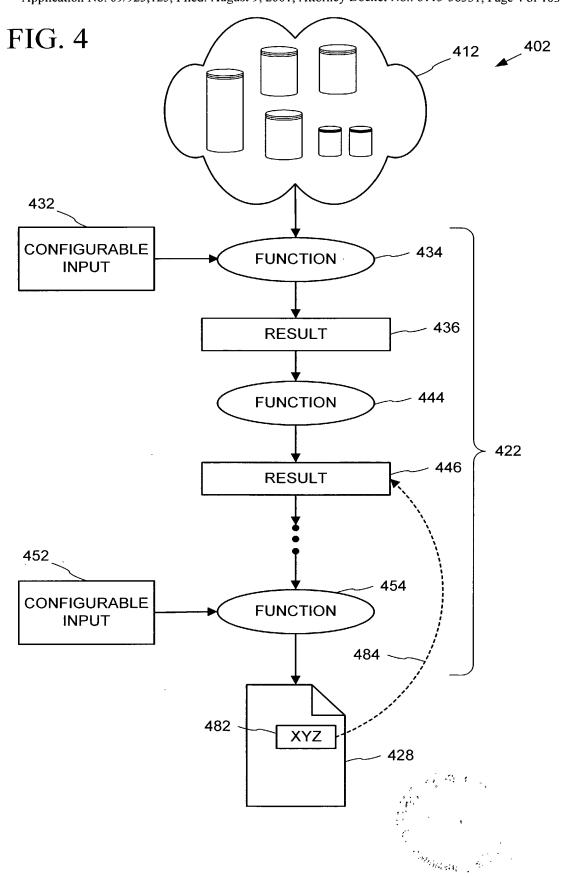


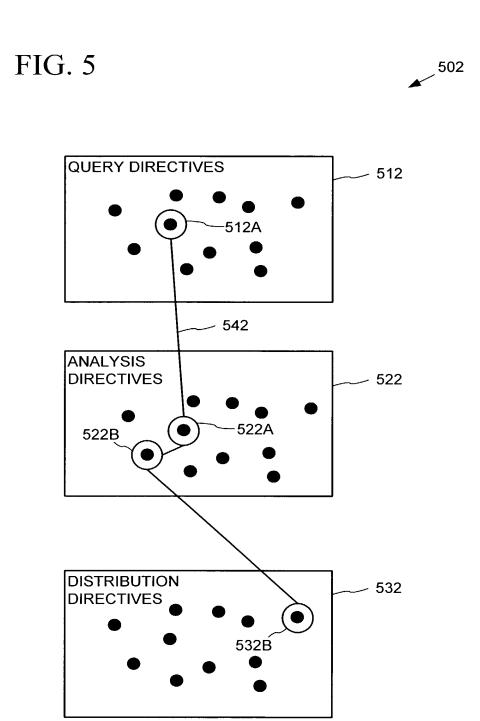
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmer Street Street 1600 Portland Oregon 17204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 2 of 103

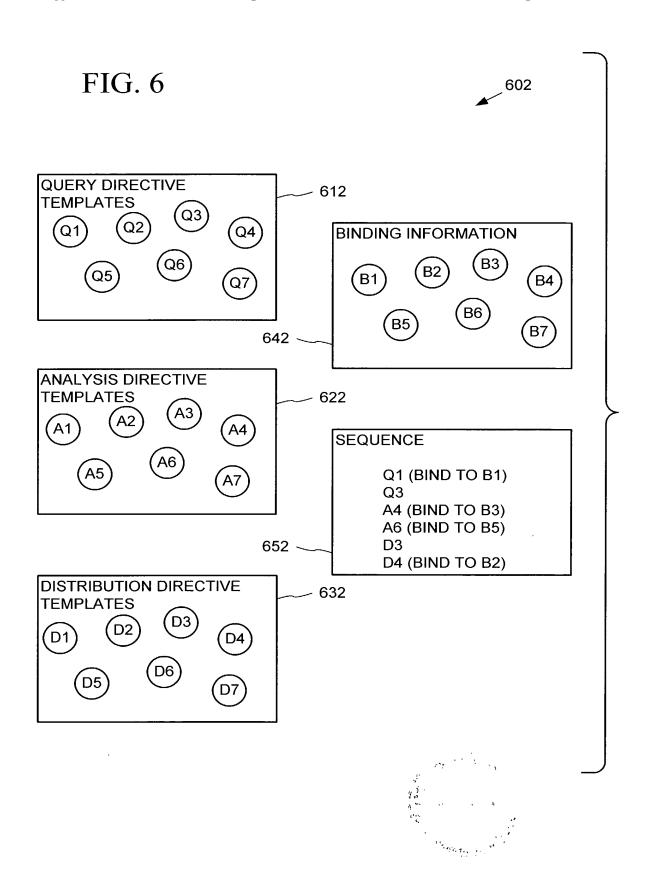




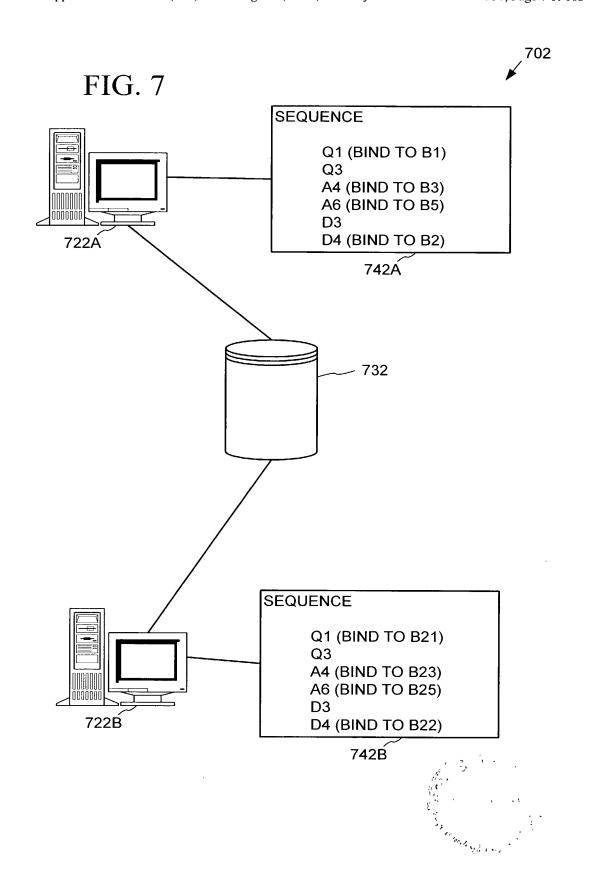
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Street Street 600 Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 4 of 103



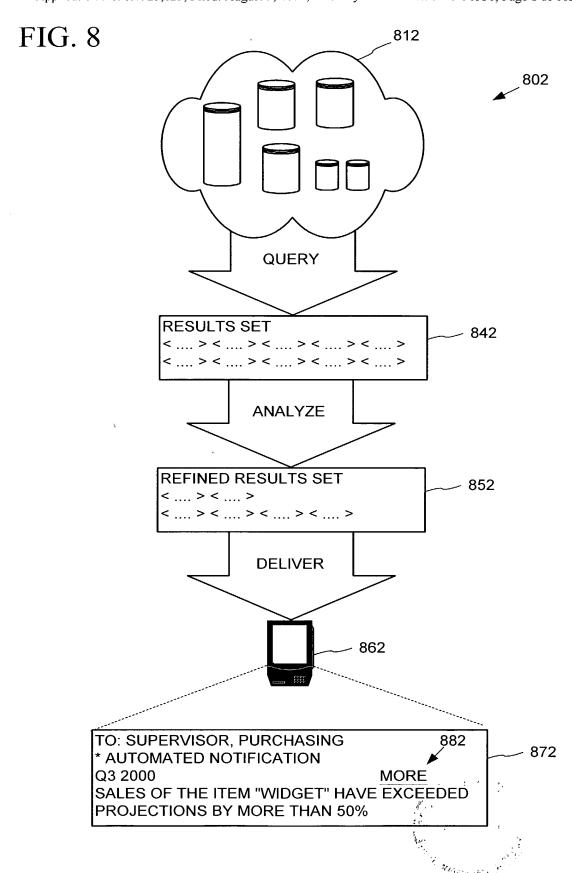




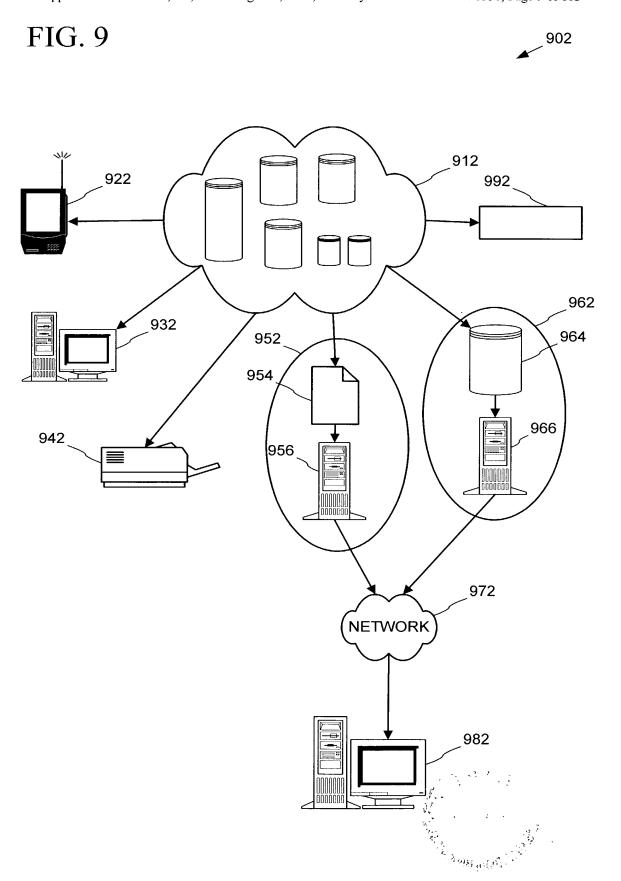
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Suite 600 Portland, Oragon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 7 of 103



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street; Suite 1600; Portland; Dregon 1797204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 8 of 103

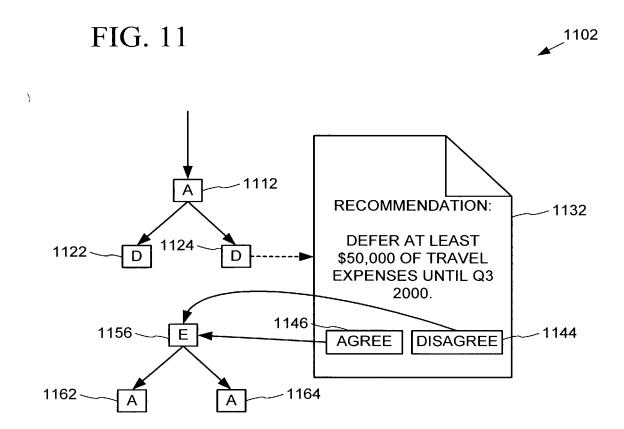


Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Strite 1600, Portland, Oregon 1 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 9 of 103

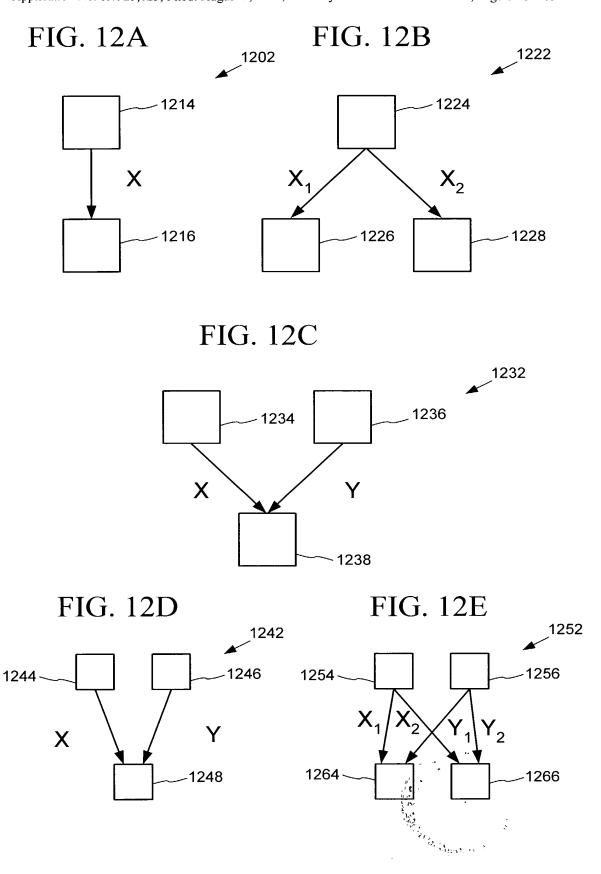


Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Suite 1600, Portland, Oregon 1 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 10 of 103

FIG. 10 1002 1022 **QUERY** 1032 1052 REFINE **ANALYZE** 1042 **DELIVER** 







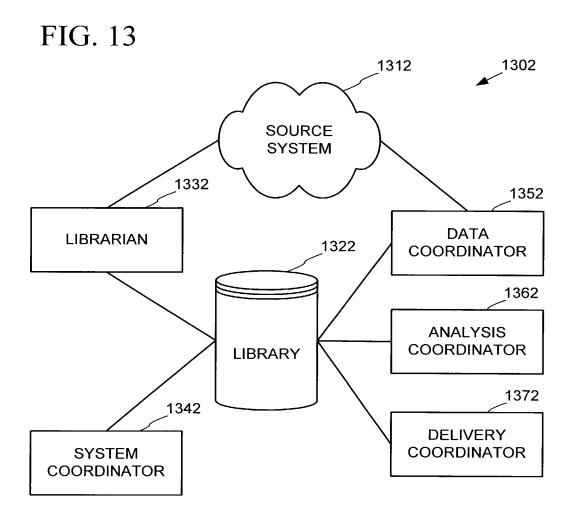
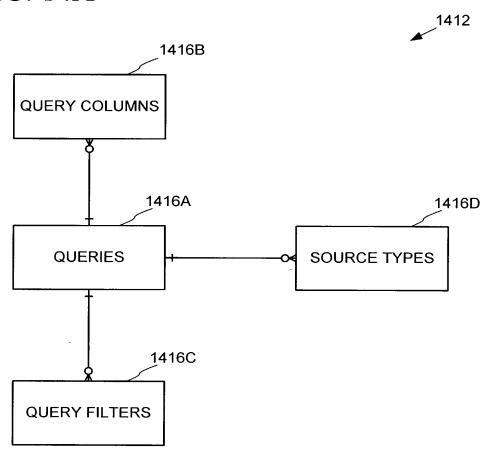


FIG. 14A



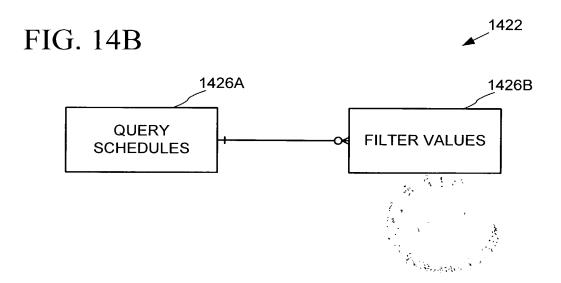


FIG. 14C

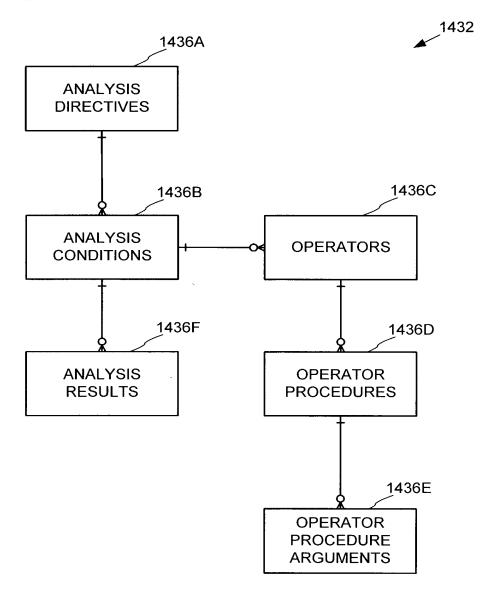




FIG. 14D

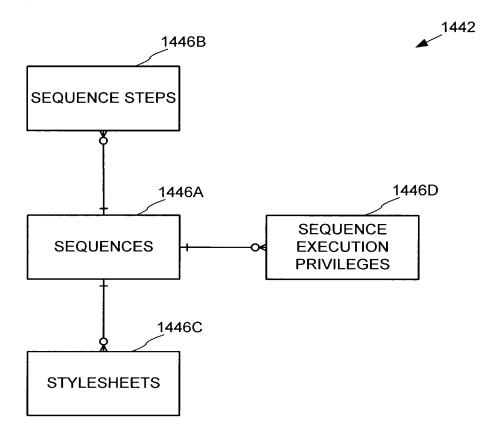




FIG. 14E

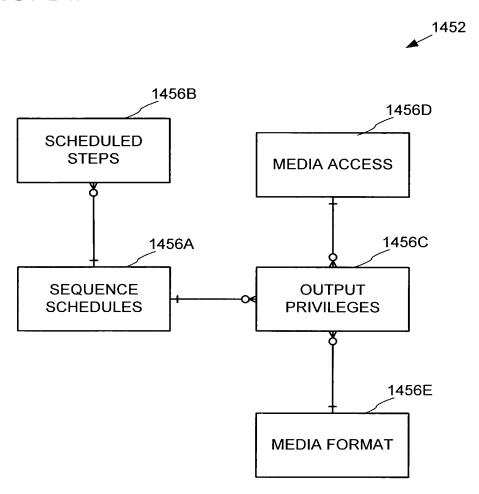
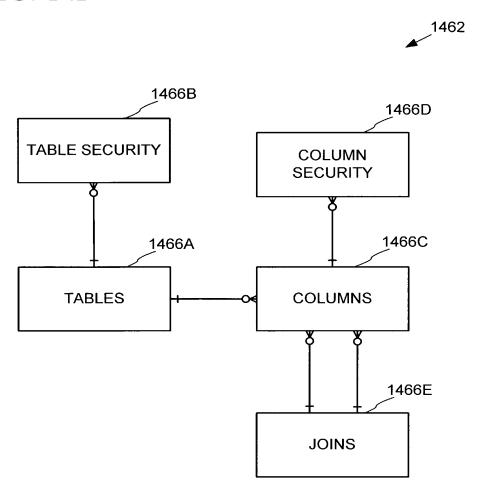
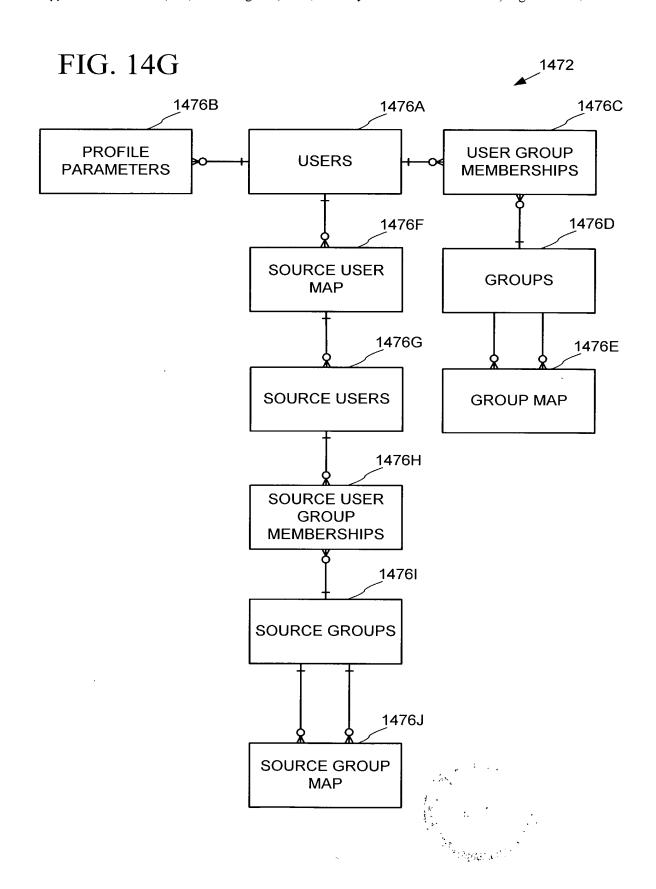


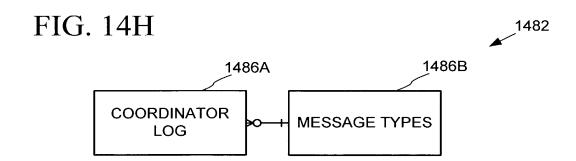
FIG. 14F







Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Stite 1600 Routland, Diegon 1 297204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 20 of 103





	0	QUERY DIRECTIVES	/ES			
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AR-PTD	PERIOD TO DATE SYSTEM B	SYSTEM B	LS	AVAILABLE	<b></b>	МОД
REV	PTD REVENUE	SYSTEM B	FS	AVAILABLE	<b> </b>	MOD
FIN	FINANCIALS	SYSTEM B	rs	AVAILABLE	<b> </b>	MOD
SALES	SALES BY DEPT SYSTEM B		LS	AVAILABLE	<b>•</b>	MOD

Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 21 of 103 GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR

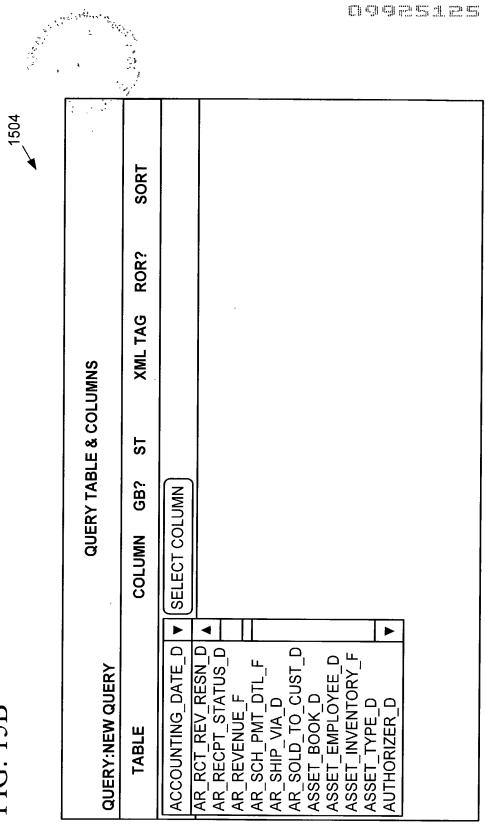


FIG. 15C

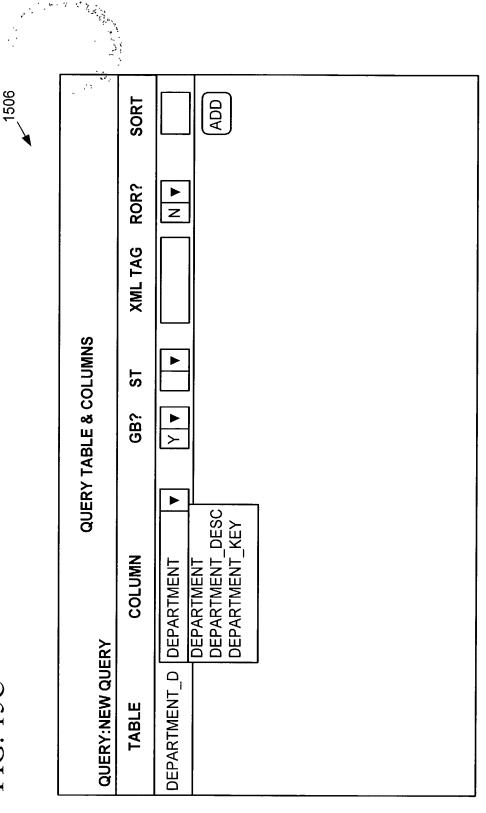


FIG. 15D

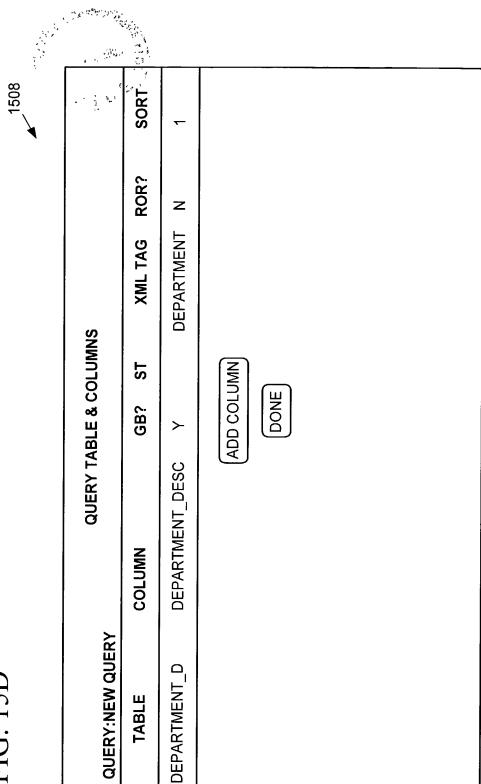
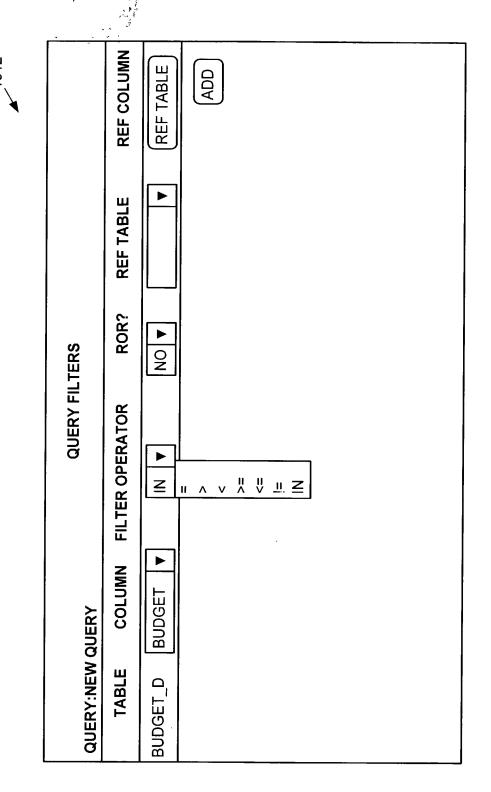


FIG. 15E

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INCOME_STMT_A	PTD_BUDGET	z	SUM	PTD_BUDGET	z	
INCOME_STMT_A	PTD_VARIANCE	z	SUM	PTD_VARIANCE N	z	-
	₹)	ADD COLUMN DONE	NMI			



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 1218-1304, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 1218-1319, 1318-1319,

QUERY:NEW QUERY	UERY	QUERY FILTERS	TERS		1,
TABLE	COLUMN	FILTER OPERATOR	ROR?	? REF TABLE	REF COLUMN
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		ADD FILTER FINISH			

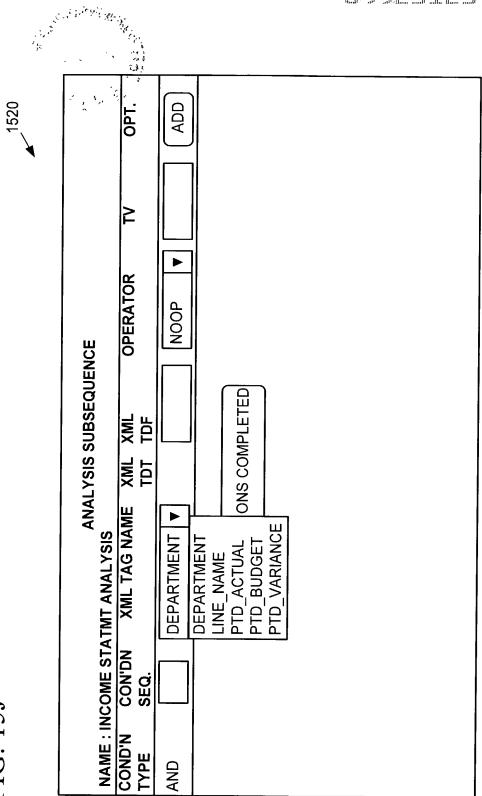
Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 27 of 103

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING,

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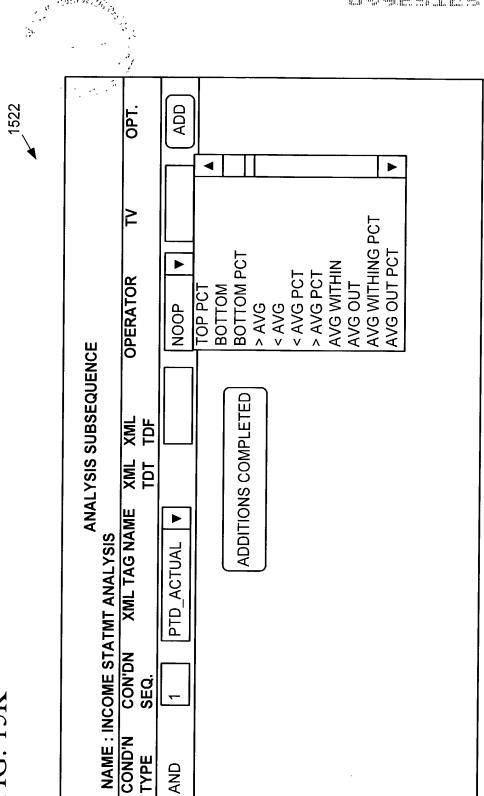
Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 28 of 103

1518 OPT. ADD **OPERATOR** NOOP **ANALYSIS SUBSEQUENCE** ADDITIONS COMPLETED XML **TDT** XML TAG NAME NAME: INCOME STATMT ANALYSIS DEPARTMENT CON'DN SEQ. COND'N TYPE AND



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING,



Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 31 of 103

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Scheuric

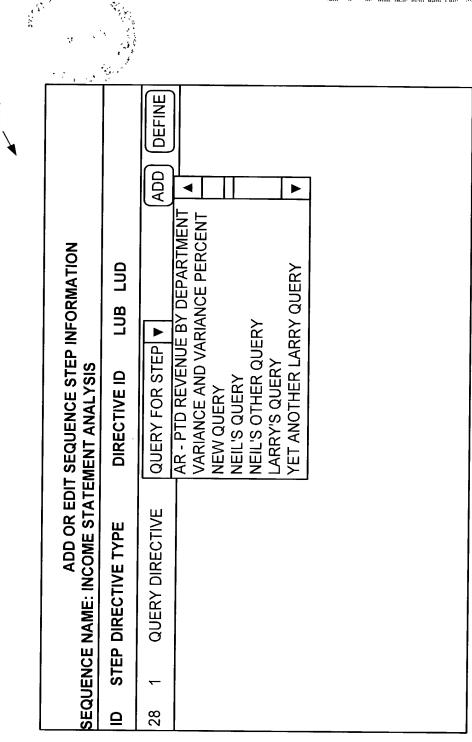
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FIG. 15L	NAME : IN	COND'N TYPE	AND	AND	AND	AND	

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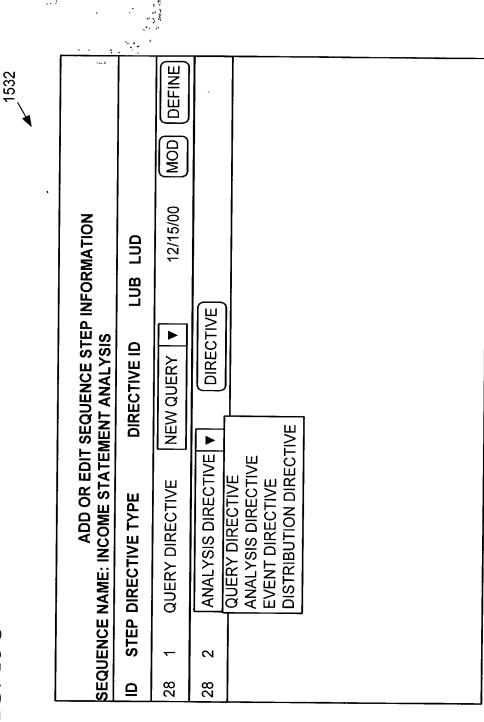
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon programment of the contraction of the contr

FIG. 15N



Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 34 of 103 GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon

FIG. 150



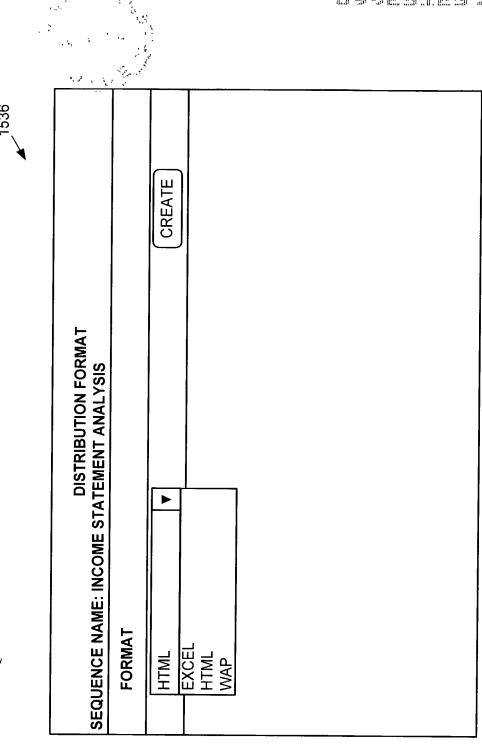
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon P7204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 35 of 103

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING,

FIG. 15Q



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING,

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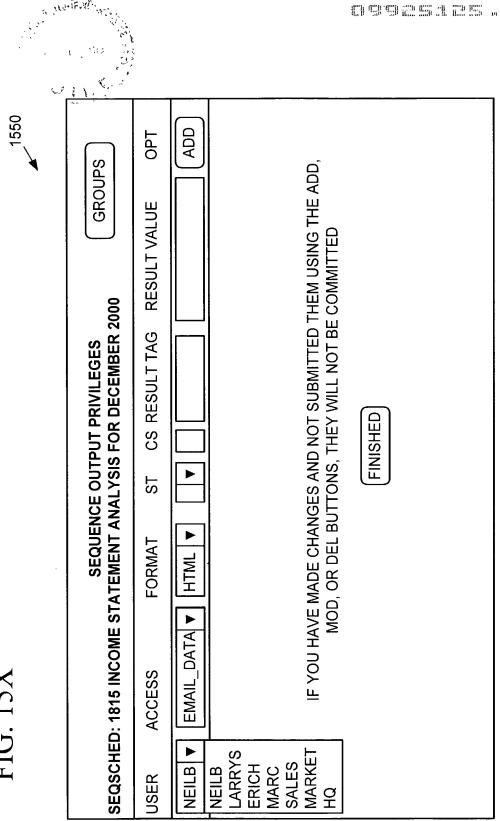
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FIG. 13 v		1546
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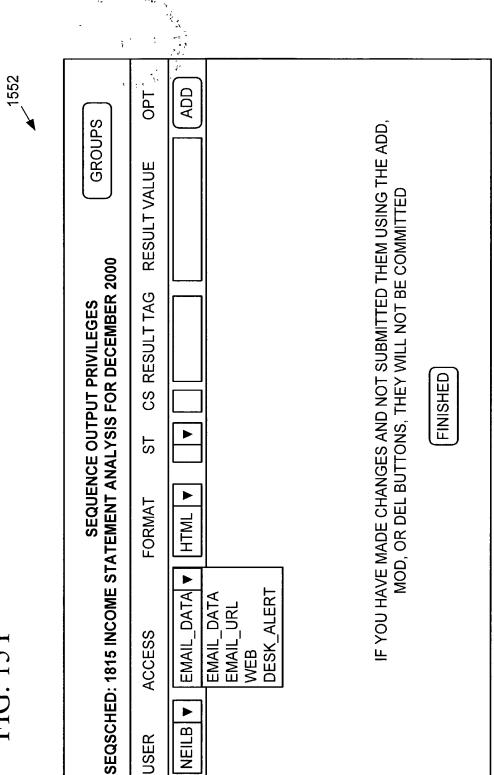
Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 43 of 103

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 121 S.M. Salmon Street, Suite 1600, Portland, Oregon OFFICE OFFICE STREET, 
FIG. 15X



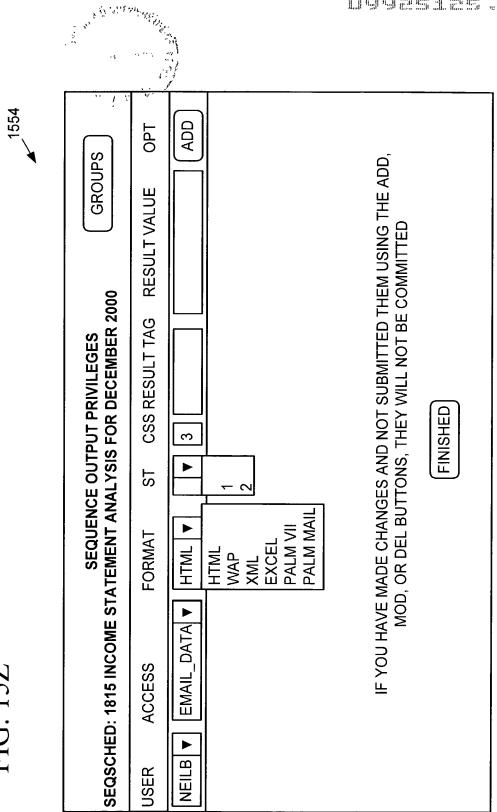
Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 44 of 103 CENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR

FIG. 15Y



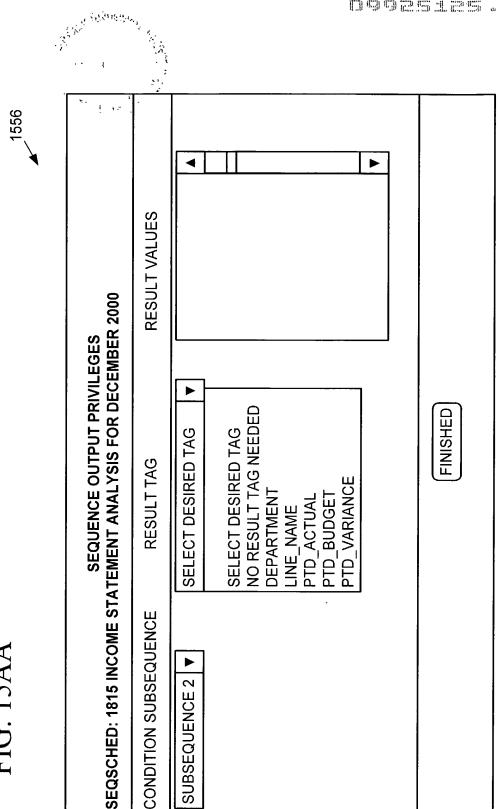
Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 45 of 103 CENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR

FIG. 15Z



Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 46 of 103 GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR

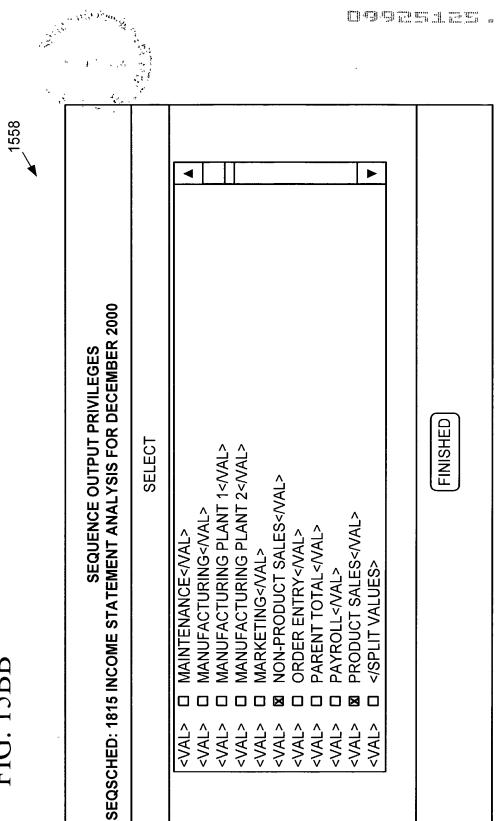
FIG. 15AA



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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING,

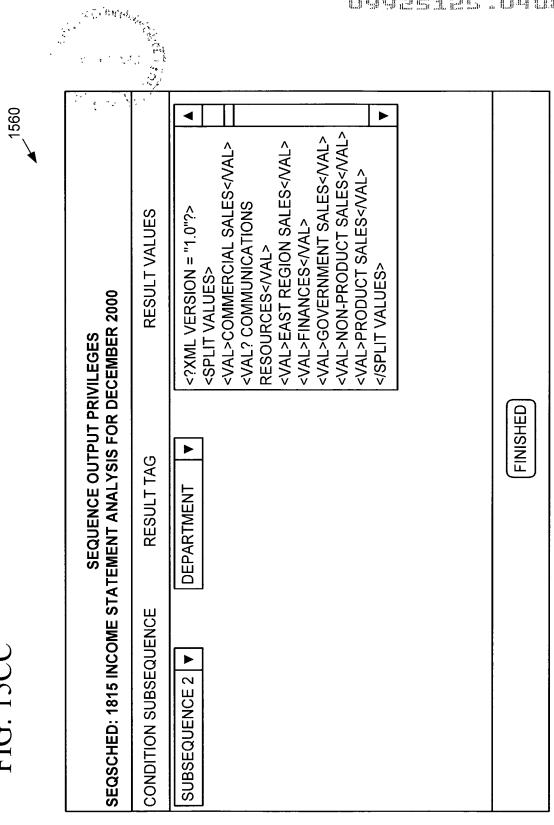
# FIG. 15BB



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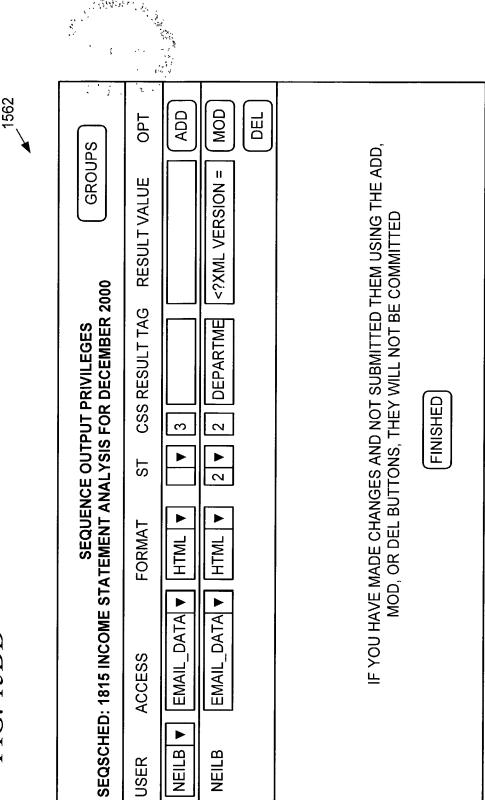
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title: SYSTEMS AND METHODS FOR 67204, (503) 226-7391, Inventor: SCHEURICH et al., Title:

FIG. 15CC



Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 49 of 103 GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR

FIG. 15DD



	PRIORITY	ADD			
ICES	FREQ	IMMEDIATE   •		(VIEW)	
SCHEDULE SEQUENCES	USER SCHEDULE DESC	S7 ►		S AND STEPS ▼	S AND STEPS PTD PTD VARIANCE PARTMENT 4G YSIS
	SEQUENCE NAME	TEST SEQUENCE FOR PRIV ▼	SELECT SEQUENCE TO VIEW	TEST SEQUENCE FOR PRIVS AND STEPS	TEST SEQUENCE FOR PRIVS AND STEPS COST CENTER SCORING - PTD COST CENTER SCORING - PTD VARIANCE TEST VOAGE AR - PTD REVUENUE BY DEPARTMENT SOCCER SCORES BUDGET VARIANCE SCORING INCOME STATEMENT ANALYSIS

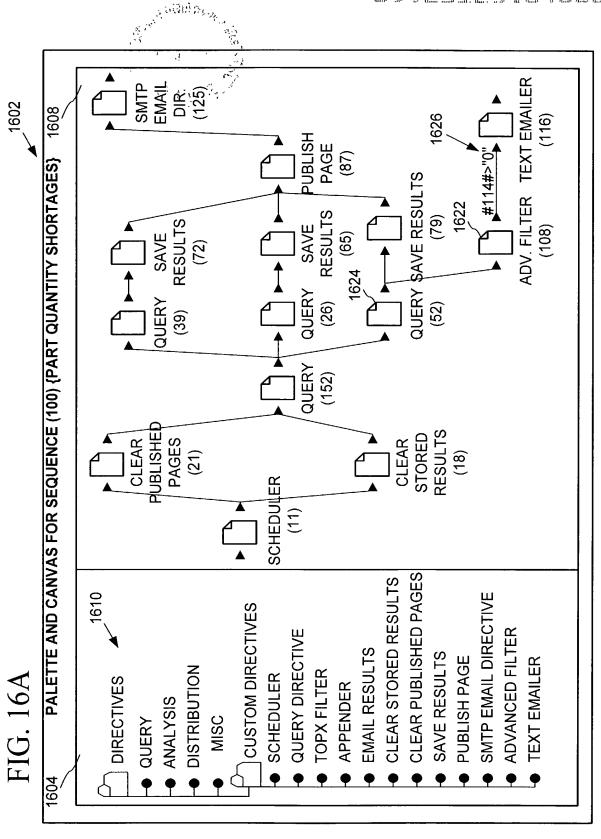
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 122 S.M. Salmon Street, Suite 1600, Portland, Oregon GENERATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 122 S.M. Salmon Street, Suite 1600, Portland, Oregon GENERATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 123 S.M. Salmon Street, Suite 1600, Portland, Oregon GENERATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 123 S.M. SALMON STREET, ORGAN A DATA COLLECTION TO SUPPORT DECISION-MAKING, 124 S.M. SALMON STREET, ORGAN A DATA COLLECTION TO SUPPORT DECISION-MAKING, 124 S.M. SALMON STREET, ORGAN A DATA COLLECTION TO SUPPORT DECISION-MAKING, 124 S.M. SALMON STREET, ORGAN A DATA COLLECTION TO SUPPORT DECISION-MAKING, 124 S.M. SALMON STREET, ORGAN S

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15		PRIORITY	ADD				OPTIONS	-2001 MOD M DEL PRIVILEGES	
		FREQ	IMMEDIATE ▼		VIEW		START	23-APR-2001 08:30 PM	
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	SCHEDULE SEQUENCES	USER SCHEDULE DESC	LS SJ		STEPS ▼	EMENT ANALYSIS USER: NB	STATUS	2001 SCHED	
	ВСНІ	SEQUENCE NAME	TEST SEQUENCE FOR PRIV ▼	SELECT SEQUENCE TO VIEW	TEST SEQUENCE FOR PRIVS AND STEPS	SEQUENCE: INCOME STATEMENT AN	ID DESCRIPTION	1815 INCOME STAT'T ANALYSIS DEC 2001 SCHED	

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 1200,

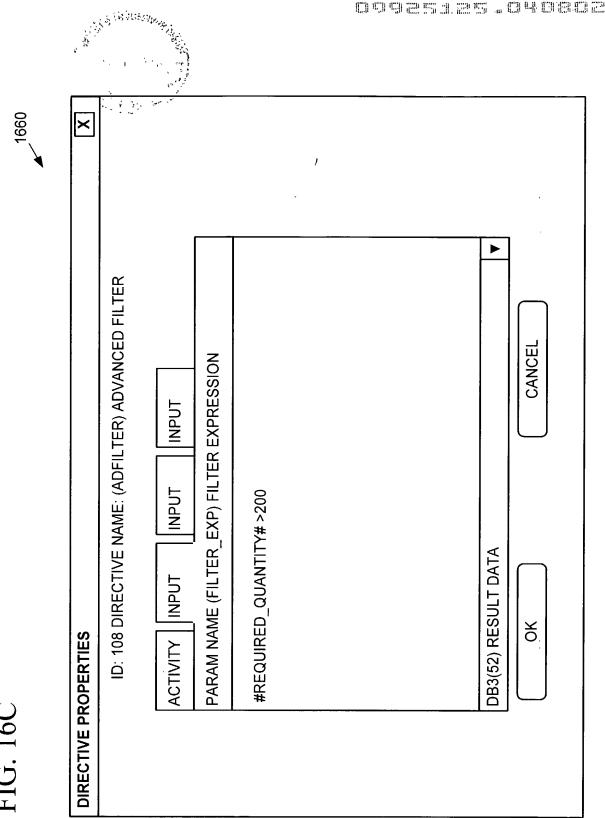


Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Poplication No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 53 of 103

FIG. 16B

	// //	Secretary of the secret						The Algebra		1
1630	X X	FINDS PART QUANTITY SHORTAGES SAVE THIS ONE	OR: AUTHOR1 JS: STATUS1	J	CONNECT STRING JDBC:ORACLE.THIN@123.245.23.1:1521:CONNECT30	DATABASE USER NAME NAME: USER_NAME RRIC1234	DATABASE PASSWORD NAME: USER_PWD SEQUENCE	OWNERNAME  QRY_ANALYSIS	CURRENT PERIOD NAME: CURPERIOD (1997-09) SEP-97	
TIG. 10D	SEQUENCE PROPERTIES	SEQUENCE NAME: DESCRIPTION: NOTES:	SEQUENCE AUTHOR: SEQUENCE STATUS:	GLOBAL VARIABLES:	CAPTION: C	CAPTION: E	CAPTION: [5]	CAPTION: CAP	CAPTION: (	
<b>「</b> <b>」</b>	뽕									

FIG. 16C



Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 55 of 103 Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR CREERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, 121 S.M. Salmon Street, Suite 1600, Portland, Oregon Properties of Street, Suite 1600, Portland, Oregon Creeper, Street, St

FIG. 17

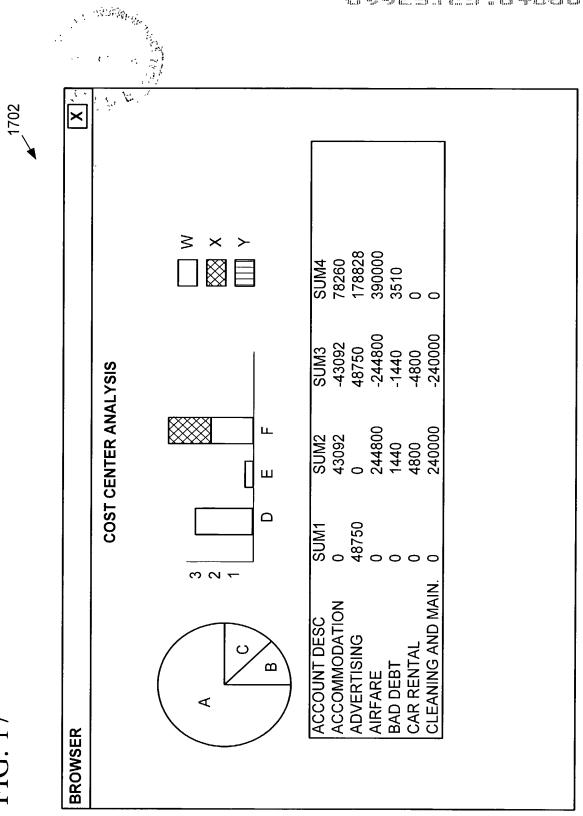


FIG. 18

1801

<DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="DB2" DIRECTIVE\_NAME="DATA
DIRECTIVE" THREADING\_EFFECT="SPLIT" DIRECTIVE\_DESC="SQL
DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN"
DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"
DIRECTIVE\_CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"
PORT="9070"/>

<IN PARAMETERS>

<PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="SQL"

PARAM DATA TYPE="STRING" PARAM NAME="SQL"/>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT"</p>

PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SPLIT\_COLUMN"/>

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="CONNECTION</pre>

STRING" PARAM\_DATA\_TYPE="STRING"

PARAM NAME="CONNECTION STRING"/>

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE USER

NAME" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="USERNAME"/>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE</p>

PASSWORD" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PWD"/>
</IN PARAMETERS>

**<OUT PARAMETERS>** 

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"

PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET"/>

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT

METADATA" PARAM DATA TYPE="STRING"

PARAM NAME="RESULTMETADATA"/>

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="SPLIT VALUE"</p>

PARAM DATA TYPE="STRING" PARAM NAME="SPLITVALUE"/>

</OUT PARAMETERS>

</DF DIRECTIVE DEFINITION>



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street State 600 Footland, Ordgon 1 2 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 58 of 103

#### FIG. 19A

\_1901

- <DF DIRECTIVE DEFINITION LIST> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="SB1" DIRECTIVE NAME="SCHEDULER" DIRECTIVE CATEGORY="DPA-MISC" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SCHEDULE DIRECTIVE" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"> - <!-- CAN ADD A TYPE OR ICON NAME - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="FREQUENCY"</p> PARAM DATA TYPE="STRING" PARAM NAME="FREQUENCY" /> </IN PARAMETERS> <OUT PARAMETERS /> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="DB2" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL" PARAM DATA TYPE="STRING" PARAM NAME="SQL" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT" PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION STRING"</p> PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD"

PARAM DATA TYPE="STRING" PARAM NAME="PWD" />

</IN PARAMETERS>



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Spatch GOD, Portland, Oregon 1 97204; (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 59 of 103

#### FIG. 19B

\_1902

- <OUT\_PARAMETERS>

<PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT DATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET" />
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT METADATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTMETADATA" />
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="SPLIT VALUE"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SPLITVALUE" />
 </OUT\_PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="AB1" DIRECTIVE\_NAME="TOPX FILTER" THREADING\_EFFECT="STANDARD" DIRECTIVE\_DESC="FILTER OUT TOP X ROWS FROM RESULTSET" DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1" DIRECTIVE\_CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4" PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET METADATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTMETADATA" />
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET" />
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="COLUMN POSITION FOR TOPX" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="TOPX\_COLUMN" />
 </IN\_PARAMETERS>

- <OUT PARAMETERS>

<PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT DATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET" />
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT METADATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTMETADATA" />
 </OUT\_PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="AB2"
DIRECTIVE\_NAME="APPENDER" DIRECTIVE\_TYPE=""
THREADING\_EFFECT="JOIN" DIRECTIVE\_DESC="REJOIN SPLIT RESULTSETS"
DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"
DIRECTIVE\_CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"

PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET METADATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTMETADATA" />
 <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET" />
 </IN\_PARAMETERS>

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Suite # 600 Portland Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 60 of 103

#### FIG. 19C

1903

- <OUT PARAMETERS>

<PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT DATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTSET" />
 <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="RESULT METADATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="RESULTMETADATA" />
 </OUT\_PARAMETERS>

</DF\_DIRECTIVE\_DEFINITION>
- <DF\_DIRECTIVE\_DEFINITION DIRECTIVE\_ID="MB1" DIRECTIVE\_NAME="EMAIL
RESULTS" THREADING\_EFFECT="STANDARD" DIRECTIVE\_TYPE=""
DIRECTIVE\_DEFINITION DIRECTIVE\_TYPE=""</pre>

DIRECTIVE\_DESC="SIMPLE EMAIL DIRECTIVE" DIRECTIVE\_VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="EMAIL ADDRESS LIST"
PARAM DATA TYPE="STRING" PARAM NAME="MAILADR" />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="SUBJECT LINE"</pre>

PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SUBJECT" />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="MESSAGE DATA"
PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="MESSAGE" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CRB1"</li>

DIRECTIVE NAME="CLEAR STORED RESULTS"

THREADING EFFECT="STANDARD" DIRECTIVE TYPE=""

DIRECTIVE\_DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY"

DIRECTIVE\_VENDOR="DPA" DIRECTIVE\_VERSION="1"

DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="OWNER ID"</pre>

PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTNAME"</p>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street State 1600 Foot land, bregon 12 2 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 61 of 103

FIG. 19D

1904

- <IN PARAMETERS>

PORT="9070" />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="OWNERID"

PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="OWNERID" />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="PAGE NAME"</pre>

PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGENAME" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

<DEPLOYMENT SERVICE="DPA\_DIRECTIVE\_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET OWNER"
PARAM DATA TYPE="STRING" PARAM NAME="OWNER" />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET"</pre>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET METADATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" />

FARAM\_DATA\_TTPE- STRING PARAM\_NAME= RESULTMETADATA />

<PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="RESULT SET NAME"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" />

</in Parameters>

- <OUT PARAMETERS>

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTSET ID"</p>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTSETID" />

</OUT PARAMETERS>

</DF\_DIRECTIVE\_DEFINITION>

FIG. 19E

1905

- <DF\_DIRECTIVE DEFINITION DIRECTIVE ID="CR2" DIRECTIVE NAME="PUBLISH" PAGE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST"</p> PARAM DATA TYPE="STRING" PARAM\_NAME="SECDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR SECDOC" PARAM DATA TYPE="STRING" PARAM NAME="SECMETA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER"</p> PARAM\_DATA TYPE="STRING" PARAM\_NAME="OWNER" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"</pre> PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGENAME" /> <PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="PAGE SLICE NAME" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="PAGESLICENAME" /> <PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="PAGE DEFINITION" PARAM DATA TYPE="STRING" PARAM NAME="PAGEDEFN" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P1" /> <PARAMETER PARAM TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"</pre> PARAM DATA TYPE="STRING" PARAM NAME="P2" /> <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P3" /> <PARAMETER PARAM TYPE="IN" PARAM\_CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM\_NAME="P4" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY" PARAM DATA TYPE="STRING" PARAM NAME="P5" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P6" /> </IN PARAMETERS>



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street; Suite 1600, Portland, Oregon 17, 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 63 of 103

FIG. 19F

1906

- <OUT PARAMETERS> <PARAMETER PARAM\_TYPE="OUT" PARAM\_CAPTION="PAGE ID" PARAM DATA TYPE="STRING" PARAM NAME="PAGEID" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE OWNER" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="OWNER" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE SLICE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" /> </OUT\_PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="DB3" DIRECTIVE\_NAME="DATA DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" DIRECTIVE\_VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE\_CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="SQL" PARAM DATA\_TYPE="PARAMITERIZED SQL STRING" PARAM NAME="SQL" /> <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="CONNECTION STRING" PARAM DATA\_TYPE="STRING" PARAM NAME="CONNECTION STRING" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="USERNAME" /> <PARAMETER PARAM\_TYPE="IN" PARAM\_CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P1"</p> PARAM DATA TYPE="STRING" PARAM NAME="P1" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P2"</p> PARAM DATA TYPE="STRING" PARAM NAME="P2" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P3"</p> PARAM DATA TYPE="STRING" PARAM NAME="P3" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P4" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="P4" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="P5"</p> PARAM DATA TYPE="STRING" PARAM NAME="P5" /> </IN PARAMETERS>



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Smitch 600 Portland, Oregon 1 2 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 64 of 103

#### FIG. 19G

</IN PARAMETERS>

1907

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM\_DATA\_TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="MB2" DIRECTIVE\_NAME="SMTP EMAIL DIRECTIVE" THREADING\_EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SEND PUBLISHED PAGES" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="ADDRDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR ADDRDOC" PARAM DATA TYPE="STRING" PARAM NAME="ADDRMETA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="ADDRCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="IDCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT"</p> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER"</pre> PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME"</pre> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE INSTANCE" PARAM DATA TYPE="STRING" PARAM NAME="PAGEINST" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MAIL FORMAT" PARAM DATA TYPE="STRING" PARAM NAME="FORMAT" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM MAIL ADDRESS" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="SENDFROM" />



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#### FIG. 19H

PORT="9070" />

\_\_1908

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES"</p> PARAM DATA TYPE="STRING" PARAM NAME="ERROR MSG" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="ABFILTER" DIRECTIVE NAME="ADVANCED FILTER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="FILTER RESULTS" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="FILTER EXPRESSION"</p> PARAM DATA TYPE="STRING" PARAM NAME="FILTER EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULTS"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ROW COUNT"</p> PARAM DATA TYPE="STRING" PARAM NAME="ROWCOUNT" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="TEXTEMAILER"</li> DIRECTIVE NAME="TEXT EMAILER" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="TEXT EMAILER" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p>



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### FIG. 19I

</DF DIRECTIVE DEFINITION LIST>

1909

- <IN PARAMETERS> <PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="SUBJECT EXPRESSION"</pre> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT\_EXP" /> <PARAMETER PARAM\_TYPE="IN" PARAM CAPTION="MESSAGE EXPRESSION"</pre> PARAM DATA TYPE="STRING" PARAM NAME="MESSAGE EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="EMAIL ADDRESSES" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM ADDRESS" PARAM\_DATA\_TYPE="STRING" PARAM NAME="FROM ADDRESS" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES" PARAM\_DATA\_TYPE="STRING" PARAM\_NAME="ERROR" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION>



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#### FIG. 20A

2001

- <RESULTS DOC> - <DP QUERY DEF VERSION="1"> <DPA\_IDENTIFIERS DATA\_SET="NW" WH\_OWNER\_NAME="RROC" /> <HINTS /> - < COLUMN DEFS> <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE" COLUMN TEXT="VENDOR NAME" TABLE ALIAS="VENDOR D" COLUMN NAME="VENDOR NAME" COLUMN ALIAS="VENDOR NAME" COLUMN SORT ORDER="1" COLUMN POSITION="1" COLUMN TYPE="GROUP BY" /> <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"</p> COLUMN\_TEXT="PERIOD\_KEY" TABLE\_ALIAS="AP INV DETAIL F" COLUMN NAME="PERIOD KEY" COLUMN ALIAS="PERIOD KEY" COLUMN SORT ORDER="2" COLUMN POSITION="2" COLUMN TYPE="GROUP BY" /> <COLUMN DEF COLUMN SORT ATTRIBUTE="DESC" COLUMN TEXT="SUM(AP INV DETAIL F.INVOICE LINE AMOUNT)" TABLE ALIAS="AP INV DETAIL F" COLUMN NAME="INVOICE LINE AMOUNT" COLUMN ALIAS="SUM INVOICE LINE AMOUNT" COLUMN SORT ORDER="3" COLUMN POSITION="3" COLUMN TYPE="AGGREGATE" /> </COLUMN DEFS> - <TABLE DEFS> <TABLE DEF TABLE ALIAS="AP INV DETAIL F" TABLE NAME="AP INV DETAIL F" /> <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D" / </TABLE DEFS> - <DETAIL FILTERS> - <FILTER FILTER\_TYPE="VALUE" COLUMN\_TEXT="VENDOR\_TYPE"</p> TABLE ALIAS="VENDOR D" FILTER PREC OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE FILTER VALUE> </FILTER>



#### **FIG. 20B**

2002

- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY" TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">01</FILTER VALUE> </FILTER> </DETAIL FILTERS> - <AGGREGATE FILTERS> - <FILTER FILTER TYPE="VALUE" COLUMN TEXT="SUM(INVOICE LINE AMOUNT)" TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR=">"> <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE> </FILTER> </AGGREGATE FILTERS> </DP QUERY DEF> <DPA QUERY SERVER INFO SERVICE="DPA QUERY SERVER"</p> MACHINE="EXH 2K" PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM" WAREHOUSE DBNAME="DEMO30" WAREHOUSE OWNER="RROC">FOODADDY</ DPA QUERY SERVER INFO> - <DP DS METADATA> <DP\_COLUMN COLUMN\_NAME="VENDOR\_NAME"</pre> COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C1" COLUMN TYPE="GROUP\_BY" COLUMN SORT ATTRIBUTE="NONE" COLUMN SOURCE ALIAS="VENDOR NAME" COLUMN LABEL="VENDOR NAME" COLUMN DESC="" COLUMN IS CURRENCY="N" /> <DP COLUMN COLUMN NAME="PERIOD KEY"</p> COLUMN\_DATA\_TYPE="VARCHAR2" COLUMN DS ALIAS="C2" COLUMN TYPE="GROUP BY" COLUMN SORT ATTRIBUTE="NONE" COLUMN SOURCE ALIAS="PERIOD KEY" COLUMN LABEL="PERIOD KEY" COLUMN DESC="" COLUMN IS CURRENCY="N" /> <DP COLUMN COLUMN NAME="SUM INVOICE LINE AMOUNT"</p> COLUMN DATA TYPE="NUMBER" COLUMN DS ALIAS="C3" COLUMN TYPE="AGGREGATE" COLUMN SORT ATTRIBUTE="DESC" COLUMN\_SOURCE\_ALIAS="SUM\_INVOICE LINE AMOUNT" COLUMN LABEL="INVOICE LINE AMOUNT" COLUMN DESC="" COLUMN IS CURRENCY="Y" />

### **FIG. 20C**

</DP DS METADATA> - <DP DS> - <R> <C1>JAMIE FROST</C1> <C2>DEC-97</C2> <C3>28159</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>JAN-98</C2> <C3>15114.76</C3> </R>- <R> <C1>JAMIE FROST</C1> <C2>FEB-98</C2> <C3>4417.86</C3> </R>- <R> <C1>KERRY JONES</C1> <C2>APR-98</C2> <C3>3439.10</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>DEC-97</C2> <C3>3263</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>NOV-97</C2> <C3>2907.85</C3> </R>- <R> <C1>KERRY JONES</C1> <C2>FEB-98</C2>

<C3>2799.31</C3>

</R>

2003



#### **FIG. 20D**

2004

- <R> <C1>KERRY JONES</C1> <C2>MAY-98</C2> <C3>2698.64</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>APR-98</C2> <C3>2657.20</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAY-98</C2> <C3>2549.68</C3> </R>- <R> <C1>KERRY JONES</C1> <C2>MAR-98</C2> <C3>2511.98</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAR-98</C2> <C3>2459.87</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>JUN-98</C2> <C3>2219.90</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>JUN-98</C2> <C3>2182.29</C3> </R>- <R> <C1>KERRY JONES</C1>

<C2>JAN-98</C2><C3>1516</C3>

</R>



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FIG. 20E

- <R>

<C1>BLACK, CHRIS</C1>

<C2>NOV-97</C2>

<C3>651.06</C3>

</R>

</DP DS>

</RESULTS\_DOC>

2005



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#### **FIG. 21A**

2101

- <DF WORKFLOW VERSION="1">
- <DF\_WORKFLOW\_HEADER DF\_EDITOR\_MAX\_ID="172" FLOW\_NAME="QTY
  ANALYSIS" FLOW\_DESCRIPTION="QTY ANALYSIS FLOW" FLOW\_STATUS="FLOW"
  STATUS" FLOW\_NOTES="" FLOW\_AUTHOR="FLOW AUTHOR" />
- <DF WORKFLOW PARAMETERS>
- <PARAMETER NODE\_ID="13" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="CONNECT STRING" PARAM\_NAME="CONNECT\_STRING"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE
- PARAM\_TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</P>
  - </PARAMETER>
- <PARAMETER NODE\_ID="14" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USER\_NAME"
  PARAM\_TYPE="OUT">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">RROC609</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="15" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="USER\_PWD"
  PARAM\_TYPE="OUT">
  - <PARAM\_SOURCE PARAM\_TYPE="VALUE">DPA</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="16" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="OWNERNAME" PARAM\_NAME="OWNERNAME"
  PARAM\_TYPE="OUT">
  - <PARAM\_SOURCE PARAM\_TYPE="VALUE">QTY\_ANALYSIS</PARAM\_SOURCE>
    </PARAMETER>
- <PARAMETER NODE\_ID="17" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="CURRENT PERIOD" PARAM\_NAME="CURRPERIOD"
  PARAM\_TYPE="OUT">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">(1997-09) SEP-97</PARAM\_SOURCE>
- </PARAMETER>
- </DF\_WORKFLOW\_PARAMETERS>
- <DF WORKFLOW ACTIVITIES>
- <ACTIVITY NODE ID="11">
- <activity\_header activity\_notes="activity notes"
- ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" />
  - <activity\_implementation directive vendor="dpa" \*\*
- DIRECTIVE NAME="SCHEDULER" THREADING EFFECT="SPLIT"
- DIRECTIVE\_ID="SB1" DIRECTIVE\_VERSION="1" DIRECTIVE\_DESC="SCHEDULE DIRECTIVE" />

सिर्जात-प्रकार प्र

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### **FIG. 21B**

</PARAMETER>

2102

SHELL SE

- <ACTIVITY IN PARAMETERS> - <PARAMETER NODE\_ID="12" PARAM\_DATA\_TYPE="STRING" PARAM CAPTION="FREQUENCY" PARAM NAME="FREQUENCY" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">0</PARAM\_SOURCE> </PARAMETER> </ACTIVITY\_IN\_PARAMETERS> <ACTIVITY OUT PARAMETERS /> </ACTIVITY> - <ACTIVITY NODE ID="18"> <activity header activity\_notes="activity notes" ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" /> <activity implementation directive vendor="dpa" DIRECTIVE NAME="CLEAR STORED RESULTS" THREADING EFFECT="STANDARD" DIRECTIVE ID="CRB1" DIRECTIVE\_TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE\_ID="19" PARAM\_ DATA\_TYPE="STRING" PARAM CAPTION="OWNER ID" PARAM NAME="OWNERID" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">16</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="20" PARAM\_DATA\_TYPE="STRING"</p> PARAM CAPTION="RESULTNAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN"> <PARAM\_SOURCE PARAM\_TYPE="VALUE">\*</PARAM\_SOURCE> </PARAMETER> </ACTIVITY\_IN\_PARAMETERS> <ACTIVITY OUT PARAMETERS /> </ACTIVITY> - <ACTIVITY NODE ID="21"> <activity\_header activity\_notes="activity notes" ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" /> <activity\_implementation directive vendor="dpa" DIRECTIVE NAME="CLEAR PUBLISHED PAGES" THREADING\_EFFECT="STANDARD" DIRECTIVE ID="CRC1" DIRECTIVE TYPE="" DIRECTIVE\_VERSION="1" DIRECTIVE\_DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE\_ID="22" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="OWNERID" PARAM NAME="OWNERID" PARAM\_TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">16</PARAM\_SOURCE>

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2103

# **FIG. 21C**

- <PARAMETER NODE\_ID="23" PARAM\_DATA\_TYPE="STRING"</pre> PARAM CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">\*</PARAM\_SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> <ACTIVITY OUT PARAMETERS /> </ACTIVITY> - <ACTIVITY NODE ID="26"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="DETAIL QUERY" /> <activity implementation directive vendor="dpa" DIRECTIVE NAME="DATA DIRECTIVE" THREADING\_EFFECT="STANDARD" DIRECTIVE\_ID="DB3" DIRECTIVE\_VERSION="1" DIRECTIVE\_DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="27" PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM\_TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SELECT NW COMPONENT ITEM D.COMPONENT ITEM DESC COMPONENT ITEM\_DESC,SUM(NW\_DISC\_SHORTAGE\_F.QUANTITY\_ISSUED) QUANTITY\_ISSUED,SUM(NW\_DISC\_SHORTAGE F.QUANTITY ON HAND) QUANTITY ON HAND, SUM(NW DISC SHORTAGE\_F.QUANTITY\_SHORT) QUANTITY SHORT, SUM(NW DISC\_SHORTAGE\_F.REQUIRED\_QUANTITY) REQUIRED QUANTITY FROM NW COMPONENT\_ITEM\_D\_0 NW COMPONENT ITEM D, NW DISC\_SHORTAGE\_F\_0 NW DISC SHORTAGE\_F,NW\_ORG\_PERIOD\_D\_0 NW ORG PERIOD D, NW WIP ENTITY D\_0 NW WIP ENTITY D WHERE NW DISC SHORTAGE F.COMPONENT ITEM KEY =

NW\_DISC\_SHORTAGE\_F.ORG\_PERIOD\_KEY = NW\_ORG\_PERIOD\_D.ORG\_PERIOD\_KEY AND NW\_DISC\_SHORTAGE\_F.WIP\_ENTITY\_KEY

NW COMPONENT ITEM D.COMPONENT ITEM KEY AND

=NW\_WIP\_ENTITY\_D.WIP\_ENTITY\_KEY AND NW\_ORG\_PERIOD\_D.ORG\_PERIOD = '#P1#' GROUP BY NW\_COMPONENT\_ITEM\_D.COMPONENT\_ITEM\_DESC HAVING SUM(NW\_DISC\_SHORTAGE\_F.REQUIRED\_QUANTITY) > 0 ORDER BY REQUIRED\_QUANTITY DESC, COMPONENT\_ITEM\_DESC,REQUIRED\_QUANTITY, QUANTITY\_ISSUED, QUANTITY\_SHORT, QUANTITY\_ON\_HAND</PARAM\_SOURCE>

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#### FIG. 21D

- <PARAMETER NODE\_ID="28" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="CONNECTION STRING"
  PARAM\_NAME="CONNECTION\_STRING" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="29" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USERNAME"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">14</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="30" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">15</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="31" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">
  <PARAM\_SOURCE PARAM\_TYPE="ID">17</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="32" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P2" PARAM\_NAME="P2" PARAM\_TYPE="IN">
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="33" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P3" PARAM\_NAME="P3" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="34" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="35" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
   </ACTIVITY IN PARAMETERS>



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### **FIG. 21E**

2105

- <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="36" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT DATA" PARAM\_NAME="RESULTSET" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="37" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="39"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="TREND QUERY" /> <activity implementation directive vendor="dpa" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE\_ID="40" PARAM\_DATA\_TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM\_NAME="SQL" PARAM\_TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SELECT NW ORG PERIOD D.ORG PERIOD PERIOD NAME, SUM(NW DISC SHORTAGE F.QUANTITY\_ISSUED) QUANTITY ISSUED, SUM(NW DISC SHORTAGE\_F.QUANTITY\_ON\_HAND) QUANTITY\_ON\_HAND,SUM(NW\_DISC\_SHORTAGE\_F.QUANTITY\_SHORT) QUANTITY SHORT, SUM(NW DISC SHORTAGE\_F.REQUIRED\_QUANTITY) REQUIRED QUANTITY FROM NW DISC SHORTAGE F 0 NW DISC SHORTAGE F, NW ORG PERIOD D 0 NW\_ORG\_PERIOD\_D WHERE NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD\_D.ORG\_PERIOD\_KEY GROUP BY NW ORG PERIOD D.ORG PERIOD ORDER BY PERIOD NAME DESC</ PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="41" PARAM DATA\_TYPE="STRING"</p> PARAM CAPTION="CONNECTION STRING" PARAM NAME="CONNECTION STRING" PARAM TYPE="IN" <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>> </PARAMETER>

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#### FIG. 21F

- <PARAMETER NODE\_ID="42" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USERNAME"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">14</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="43" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">15</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="44" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">17</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="45" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P2" PARAM\_NAME="P2" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="46" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P3" PARAM\_NAME="P3" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="47" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="48" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE\_ID="49" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT DATA" PARAM\_NAME="RESULTSET"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- <PARAMETER NODE\_ID="50" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT METADATA" PARAM\_NAME="RESULTMETADATA"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- </ACTIVITY OUT PARAMETERS>
- </ACTIVITY>

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# FIG. 21G

</PARAMETER>

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- <ACTIVITY NODE ID="52"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="SUMMARY QUERY" /> <activity implementation directive vendor="dpa" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - < PARAMETER NODE ID="53" PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SELECT NW COMPONENT ITEM D.COMPONENT ITEM DESC COMPONENT ITEM DESC, SUM(NW DISC SHORTAGE F.QUANTITY ISSUED) QUANTITY ISSUED, SUM(NW DISC SHORTAGE F.QUANTITY\_ON\_HAND) QUANTITY ON HAND, SUM(NW DISC SHORTAGE F.QUANTITY SHORT) QUANTITY SHORT, SUM(NW DISC SHORTAGE F.REQUIRED\_QUANTITY) REQUIRED QUANTITY FROM NW COMPONENT ITEM D 0 NW COMPONENT ITEM D,NW DISC SHORTAGE F 0 NW DISC SHORTAGE\_F,NW\_ORG\_PERIOD\_D\_0 NW ORG PERIOD D.NW WIP ENTITY D 0 NW WIP ENTITY D WHERE NW DISC SHORTAGE F.COMPONENT ITEM KEY = NW COMPONENT ITEM D.COMPONENT ITEM KEY AND NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD D.ORG PERIOD KEY AND NW DISC SHORTAGE F.WIP ENTITY KEY =NW WIP ENTITY D.WIP ENTITY KEY AND NW\_ORG\_PERIOD\_D.ORG\_PERIOD = '#P1#' GROUP BY NW COMPONENT ITEM D.COMPONENT\_ITEM\_DESC HAVING SUM(NW DISC SHORTAGE F.REQUIRED\_QUANTITY) > 0 ORDER BY REQUIRED QUANTITY DESC, COMPONENT ITEM DESC, REQUIRED QUANTITY, QUANTITY\_ISSUED, QUANTITY\_SHORT, QUANTITY\_ON\_HAND</ PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="54" PARAM DATA TYPE="STRING" PARAM CAPTION="CONNECTION STRING" PARAM NAME="CONNECTION STRING" PARAM\_TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">13</PARAM\_SOURCE> </PARAMETER> - <PARAMETER NODE\_ID="55" PARAM\_ DATA TYPE="STRING" PARAM\_CAPTION="DATABASE USER NAME" PARAM NAME="USERNAME" PARAM TYPE="IN">

<PARAM SOURCE PARAM TYPE="ID">14</PARAM SOURCE>

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#### FIG. 21H

- <PARAMETER NODE\_ID="56" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">15</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="57" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">17</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="58" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P2" PARAM\_NAME="P2" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="60" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="61" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P5" PARAM\_NAME="P5" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
  - </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE\_ID="62" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT DATA" PARAM\_NAME="RESULTSET"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- <PARAMETER NODE\_ID="63" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT METADATA" PARAM\_NAME="RESULTMETADATA"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- </ACTIVITY\_OUT\_PARAMETERS>
- </ACTIVITY>



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# FIG. 21I

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- <ACTIVITY NODE ID="65">

<activity\_header activity\_notes="activity notes"

ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA"
THREADING\_EFFECT="STANDARD" DIRECTIVE\_NAME="SAVE RESULTS"
DIRECTIVE\_ID="SR1" DIRECTIVE\_TYPE="" DIRECTIVE\_VERSION="1"
DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />

- <ACTIVITY IN PARAMETERS>

- <PARAMETER NODE\_ID="66" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="RESULT SET OWNER" PARAM\_NAME="OWNER"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE> </PARAMETER>

- <PARAMETER NODE\_ID="67" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="RESULT SET" PARAM\_NAME="RESULTSET"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="ID">36</PARAM\_SOURCE>
</PARAMETER>

- <PARAMETER NODE\_ID="68" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="RESULT SET METADATA"
PARAM\_NAME="RESULTMETADATA" PARAM\_TYPE="IN">
<PARAM\_SOURCE PARAM\_TYPE="ID">37</PARAM\_SOURCE>
</PARAMETER>

- <PARAMETER NODE\_ID="69" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="RESULT SET NAME" PARAM\_NAME="RESULTNAME"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="VALUE">DETAIL</PARAM\_SOURCE>
</PARAMETER>

</ACTIVITY IN PARAMETERS>

- <ACTIVITY OUT PARAMETERS>

- <PARAMETER NODE\_ID="70" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="RESULTSET ID" PARAM\_NAME="RESULTSETID"
PARAM\_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

</ACTIVITY\_OUT\_PARAMETERS>

</ACTIVITY>

- <ACTIVITY NODE ID="72">

<activity\_header activity\_notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA"
THREADING\_EFFECT="STANDARD" DIRECTIVE\_NAME="SAVE RESULTS"
DIRECTIVE\_ID="SR1" DIRECTIVE\_TYPE="" DIRECTIVE\_VERSION="1"
DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />

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#### FIG. 21J

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- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE\_ID="73" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT SET OWNER" PARAM\_NAME="OWNER"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="74" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT SET" PARAM\_NAME="RESULTSET"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">49</PARAM\_SOURCE>
- <PARAMETER NODE\_ID="75" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT SET METADATA"
  PARAM\_NAME="RESULTMETADATA" PARAM\_TYPE="IN">
  PARAM\_NAME="RESULTMETADATA" PARAM\_TYPE="IN">
  PARAM\_NAME="RESULTMETADATA" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">50</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="76" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT SET NAME" PARAM\_NAME="RESULTNAME"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">TREND</PARAM\_SOURCE>
  </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE\_ID="77" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULTSET ID" PARAM\_NAME="RESULTSETID"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
  - </ACTIVITY OUT\_PARAMETERS>
  - </ACTIVITY>
- <ACTIVITY NODE ID="79">
- <activity\_header activity\_notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

- <activity\_implementation directive\_vendor="dpa"
- THREADING\_EFFECT="STANDARD" DIRECTIVE\_NAME="SAVE RESULTS" DIRECTIVE\_ID="SR1" DIRECTIVE\_TYPE="" DIRECTIVE\_VERSION="1" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />

Water Control

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE\_ID="80" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT SET OWNER" PARAM\_NAME="OWNER"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE>
    </PARAMETER>

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#### FIG. 21K

</PARAMETER>

2111

- <PARAMETER NODE ID="81" PARAM DATA TYPE="STRING"</li> PARAM CAPTION="RESULT SET" PARAM NAME="RESULTSET" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="82" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="83" PARAM DATA TYPE="STRING"</li> PARAM CAPTION="RESULT SET NAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM\_TYPE="VALUE">SUMMARY</PARAM\_SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="84" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTSET ID" PARAM NAME="RESULTSETID" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY\_OUT\_PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="87"> <activity header activity notes="activity notes" ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" /> <ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA"</p> THREADING\_EFFECT="STANDARD" DIRECTIVE NAME="PUBLISH PAGE" DIRECTIVE ID="CR2" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE\_ID="88" PARAM\_DATA\_TYPE="STRING"</li> PARAM CAPTION="GRANT SECURITY LIST" PARAM NAME="SECDOC" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">162</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="89" PARAM DATA TYPE="STRING" PARAM\_CAPTION="METADATA FOR SECDOC" PARAM NAME="SECMETA" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">163</PARAM SOURCE>

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FIG. 21L

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- <PARAMETER NODE\_ID="90" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="GRANT SECURITY LIST" PARAM\_NAME="SECCOLNAME" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">USERNAME
- <PARAMETER NODE\_ID="91" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="PAGE OWNER" PARAM\_NAME="OWNER" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">16</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="92" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE NAME" PARAM\_NAME="PAGENAME" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">STARTPAGE</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="93" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="PAGE SLICE NAME" PARAM\_NAME="PAGESLICENAME"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">FIRST</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="94" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="PAGE DEFINITION" PARAM\_NAME="PAGEDEFN"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE"><DP\_PAGE\_DEF><LAYER LAYER\_TYPE="HORIZONTAL" LAYER\_BORDER="0" LAYER\_PADDING="3" LAYER\_HEIGHT="100%" LAYER\_WIDTH="100%"><LAYER
- LAYER\_TYPE="VERTICAL" LAYER\_PADDING="3" LAYER\_BORDER="0"
- LAYER\_HEIGHT="225" LAYER\_WIDTH="100%"><LAYER LAYER\_TYPE="WIDGET"
- LAYER\_HEIGHT="100%" LAYER\_WIDTH="50%"><WIDGET WIDGET ID="DP\_PIE\_CHART"><PARAMETERS><PARAM
- PARAM\_NAME="TITLE">MY PIE</PARAM><PARAM PARAM\_NAME="DSID">#P3#</
- PARAM><PARAM PARAM\_NAME="VALUECOL">REQUIRED\_QUANTITY</
- PARAM><PARAM PARAM\_NAME="LABELCOL">COMPONENT\_ITEM\_DESC</
- PARAM><PARAM PARAM\_NAME="FILTERTYPE">TOP</PARAM><PARAM
- PARAM\_NAME="FILTERVAL">10</PARAM></PARAMETERS></WIDGET></
- LAYER><LAYER LAYER\_TYPE="WIDGET" LAYER\_HEIGHT="100%"
- LAYER\_WIDTH="50%"><WIDGET
- WIDGET ID="DP BAR CHART2"><PARAMETERS><PARAM
- PARAM\_NAME="TITLE">MY CHART TITLE</PARAM><PARAM
- PARAM NAME="DSID">#P2#</PARAM><PARAM
- PARAM\_NAME="MEASURECOLS">QUANTITY\_ON\_HAND|QUANTITY\_ISSUED|QUA

Howers of

- NTITY\_SHORT|REQUIRED\_QUANTITY</PARAM><PARAM
- PARAM NAME="XAXISLABELS">ON HAND|ISSUED|SHORT|REQUIRED</
- PARAM><PARAM PARAM\_NAME="SERIESCOL">PERIOD\_NAME</PARAM></
- PARAMETERS></WIDGET></LAYER></LAYER>
- LAYER TYPE="HORIZONTAL" LAYER BORDER="0" LAYER PADDING="3"

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salthoff Street Suite 1600. Portland, Oragion CT 2 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 84 of 103

FIG. 21M

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LAYER\_HEIGHT="80%" LAYER\_WIDTH="100%"><LAYER LAYER\_TYPE="WIDGET" LAYER\_HEIGHT="100%" LAYER\_WIDTH="100%"><WIDGET WIDGET\_ID="DP\_REPORT\_VIEWER"><PARAMETERS><PARAM PARAM\_NAME="TITLE">MY TITLE</PARAM> <PARAM PARAM\_NAME="DSID">#P1#</PARAM></PARAMETERS></WIDGET></LAYER></LAYER></LAYER></LAYER></PARAM\_SOURCE> </PARAMETER>

- <PARAMETER NODE\_ID="96" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="IN RESULTS KEY" PARAM\_NAME="P2" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">77</PARAM\_SOURCE>
   </PARAMETER>

- <PARAMETER NODE\_ID="100" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="IN RESULTS KEY" PARAM\_NAME="P6" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">70</PARAM\_SOURCE>
   </PARAMETER>
   </ACTIVITY\_IN\_PARAMETERS>
- <ACTIVITY\_OUT\_PARAMETERS>
- <PARAMETER NODE\_ID="101" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="PAGE ID" PARAM\_NAME="PAGEID" PARAM\_TYPE="OUT">
   <PARAM\_SOURCE />
   </PARAMETER>
- <PARAMETER NODE\_ID="102" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="PAGE OWNER" PARAM\_NAME="OWNER"
  PARAM\_TYPE="OUT">
   <PARAM\_SOURCE />
   </PARAMETER>

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FIG. 21N - <PARAMETER NODE ID="103" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="104" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE SLICE NAME" PARAM NAME="PAGESLICENAME" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="108"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="OUTOF BOUNDS QTY" /> <activity implementation directive vendor="dpa" THREADING EFFECT="STANDARD" DIRECTIVE NAME="ADVANCED FILTER" DIRECTIVE ID="ABFILTER" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="FILTER RESULTS" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="109" PARAM DATA TYPE="STRING" PARAM\_CAPTION="FILTER EXPRESSION" PARAM NAME="FILTER EXP" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">#REQUIRED QUANTITY# > 200</ PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="110" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="111" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="RESULTS" PARAM NAME="RESULTSDOC" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="112" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER>

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FIG. 210

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- <PARAMETER NODE\_ID="113" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULTS" PARAM\_NAME="RESULTSDOC" PARAM\_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

- <PARAMETER NODE\_ID="114" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="ROW COUNT" PARAM\_NAME="ROWCOUNT" PARAM\_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

</ACTIVITY OUT PARAMETERS>

</ACTIVITY>

- <ACTIVITY NODE ID="116">

<activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"

THREADING\_EFFECT="STANDARD" DIRECTIVE\_NAME="TEXT EMAILER" DIRECTIVE\_ID="TEXTEMAILER" DIRECTIVE\_TYPE="" DIRECTIVE\_VERSION="1" DIRECTIVE DESC="TEXT EMAILER" />

- <ACTIVITY IN PARAMETERS>

- <PARAMETER NODE\_ID="117" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="SUBJECT EXPRESSION" PARAM\_NAME="SUBJECT\_EXP"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="VALUE">OUT OF BOUNDS QTY CONDITION</P>

</PARAMETER>

- <PARAMETER NODE\_ID="118" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="MESSAGE EXPRESSION" PARAM\_NAME="MESSAGE\_EXP"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="VALUE">COMPONENT:

#COMPONENT\_ITEM\_DESC# REQUIRES #REQUIRED\_QUANTITY# ADDITIONAL UNITS</PARAM SOURCE>

</PARAMETER>

- <PARAMETER NODE\_ID="119" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="EMAIL ADDRESSES" PARAM\_NAME="EMAIL\_ADDRESSES"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="VALUE">EXH@DPAPPLICATIONS.COM</PARAM\_SOURCE>

</PARAMETER>

- <PARAMETER NODE\_ID="120" PARAM\_DATA\_TYPE="STRING"
PARAM\_CAPTION="SEND FROM ADDRESS" PARAM\_NAME="FROM\_ADDRESS"
PARAM\_TYPE="IN">

<PARAM\_SOURCE PARAM\_TYPE="VALUE">DF@DPAPPLICATIONS.COM
PARAM\_SOURCE>

</parameter>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street State 600 Fortland Oregon 122 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 87 of 103

#### FIG. 21P

- <PARAMETER NODE\_ID="121" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULTS METADATA" PARAM\_NAME="METADOC"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">112</PARAM\_SOURCE> </PARAMETER>
- - </ACTIVITY IN PARAMETERS>
- <ACTIVITY\_OUT\_PARAMETERS>
- <PARAMETER NODE\_ID="123" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="ERROR MESSAGES" PARAM\_NAME="ERROR"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
  - </ACTIVITY OUT PARAMETERS>
- </ACTIVITY>
- <ACTIVITY NODE ID="125">
- <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"
- ACTIVITY\_DESCRIPTION="EMAIL LINK" />
- <ACTIVITY\_IMPLEMENTATION DIRECTIVE\_VENDOR="DPA"
  THREADING\_EFFECT="STANDARD" DIRECTIVE\_NAME="SMTP EMAIL DIRECTIVE"
  DIRECTIVE\_ID="MB2" DIRECTIVE\_TYPE="" DIRECTIVE\_VERSION="1"
  DIRECTIVE DESC="SEND PUBLISHED PAGES" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE\_ID="126" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="EMAIL ADDRESSES" PARAM\_NAME="ADDRDOC" PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">162</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="127" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="METADATA FOR ADDRDOC" PARAM\_NAME="ADDRMETA"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="ID">163</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="128" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="EMAIL COLUMN NAME" PARAM\_NAME="ADDRCOLNAME"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">EMAIL\_ADDRESS</PARAM\_SOURCE>
  </PARAMETER>

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# FIG. 21Q

- <PARAMETER NODE\_ID="129" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="EMAIL COLUMN NAME" PARAM\_NAME="IDCOLNAME" PARAM TYPE="IN">

- <PARAM\_SOURCE PARAM\_TYPE="VALUE">USERNAME
- <PARAMETER NODE\_ID="130" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="SUBJECT" PARAM\_NAME="SUBJECT" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="VALUE">QTY ANALYSIS UPDATED</PARAM\_SOURCE>
  - </PARAMETER>
- <PARAMETER NODE\_ID="132" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="PAGE NAME" PARAM\_NAME="PAGENAME" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">103</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="133" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="PAGE INSTANCE" PARAM\_NAME="PAGEINST" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="ID">104</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="135" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="SEND FROM MAIL ADDRESS" PARAM\_NAME="SENDFROM"
  PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">DF@DPAPPLICATIONS.COM</PARAM\_SOURCE>
  - </PARAMETER>
  - </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE\_ID="136" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="ERROR MESSAGES" PARAM\_NAME="ERROR\_MSG"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
  - </ACTIVITY\_OUT\_PARAMETERS>
  - </ACTIVITY>

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# FIG. 21R

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- <ACTIVITY NODE ID="152">

<activity\_header activity\_notes="activity notes"

ACTIVITY\_DESCRIPTION="ACTIVITY DESCRIPTION" />

<a color="black"><ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="bpa"</a>

THREADING\_EFFECT="STANDARD" DIRECTIVE\_NAME="DATA DIRECTIVE"
DIRECTIVE\_ID="DB3" DIRECTIVE\_VERSION="1" DIRECTIVE\_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE\_ID="153" PARAM\_DATA\_TYPE="PARAMITERIZED SQL STRING" PARAM\_CAPTION="SQL" PARAM\_NAME="SQL" PARAM\_TYPE="IN"> <PARAM\_SOURCE PARAM\_TYPE="VALUE">SELECT

USERNAME, EMAIL\_ADDRESS FROM OA3.DF\_QTYAPP\_USERS</P>

- </PARAMETER>
- <PARAMETER NODE\_ID="154" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="CONNECTION STRING" PARAM\_NAME="CONNECTION\_STRING" PARAM\_TYPE="IN"> <PARAM\_SOURCE

PARAM\_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:N RB816</PARAM SOURCE>

- </PARAMETER>
- <PARAMETER NODE\_ID="155" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="DATABASE USER NAME" PARAM\_NAME="USERNAME"
  PARAM\_TYPE="IN">
  - <PARAM\_SOURCE PARAM\_TYPE="VALUE">OA3</PARAM\_SOURCE> </PARAMETER>
- <PARAMETER NODE\_ID="156" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="DATABASE PASSWORD" PARAM\_NAME="PWD" PARAM\_TYPE="IN">
- <PARAM\_SOURCE PARAM\_TYPE="VALUE">OA3</PARAM\_SOURCE>
  </PARAMETER>
- <PARAMETER NODE\_ID="157" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P1" PARAM\_NAME="P1" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="158" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P2" PARAM\_NAME="P2" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- <PARAMETER NODE\_ID="159" PARAM\_DATA\_TYPE=;"STRING"
  PARAM\_CAPTION="P3" PARAM\_NAME="P3" PARAM\_TYPE="IN">
  <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
  </PARAMETER>

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**FIG. 21S** 

- <PARAMETER NODE\_ID="160" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="P4" PARAM\_NAME="P4" PARAM\_TYPE="IN">
   <PARAM\_SOURCE PARAM\_TYPE="ID">13</PARAM\_SOURCE>
   </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE\_ID="162" PARAM\_DATA\_TYPE="STRING" PARAM\_CAPTION="RESULT DATA" PARAM\_NAME="RESULTSET" PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
- <PARAMETER NODE\_ID="163" PARAM\_DATA\_TYPE="STRING"
  PARAM\_CAPTION="RESULT METADATA" PARAM\_NAME="RESULTMETADATA"
  PARAM\_TYPE="OUT">
  - <PARAM SOURCE />
  - </PARAMETER>
  - </ACTIVITY\_OUT\_PARAMETERS>
  - </ACTIVITY>
  - </DF WORKFLOW ACTIVITIES>
- <DF WORKFLOW TRANSITIONS>
- <TRANSITION NODE ID="24" FROM ACTIVITY\_ID="11" TO\_ACTIVITY\_ID="18" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="25" FROM\_ACTIVITY\_ID="11" TO\_ACTIVITY\_ID="21" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="71" FROM\_ACTIVITY\_ID="26" TO ACTIVITY\_ID="65" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="78" FROM ACTIVITY ID="39" TO ACTIVITY\_ID="72" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="85" FROM ACTIVITY ID="52" TO ACTIVITY ID="79" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="105" FROM\_ACTIVITY ID="65" TO\_ACTIVITY ID="87" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="106" FROM ACTIVITY ID="72" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="107" FROM ACTIVITY\_ID="79" TO\_ACTIVITY ID="87" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="115" FROM ACTIVITY ID="52" TO ACTIVITY ID="108" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="124" FROM\_ACTIVITY\_ID="108" TO\_ACTIVITY\_ID="116" TRANSITION\_EXPRESSION="#114# > "0"" DESCRIPTION UESCRIPTIONS NOTES="NOTES" />

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# **FIG. 21T**

2120

<TRANSITION NODE\_ID="137" FROM\_ACTIVITY\_ID="87" TO\_ACTIVITY ID="125" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="164" FROM\_ACTIVITY ID="18" TO ACTIVITY ID="152" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="165" FROM\_ACTIVITY ID="21" TO ACTIVITY ID="152" TRANSITION\_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="166" FROM\_ACTIVITY\_ID="152" TO\_ACTIVITY\_ID="26" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="167" FROM\_ACTIVITY\_ID="152" TO\_ACTIVITY ID="39" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE\_ID="168" FROM\_ACTIVITY\_ID="152" TO\_ACTIVITY\_ID="52" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> </DF WORKFLOW TRANSITIONS> - <DF WORKFLOW EDITOR> <ACTIVITY\_VISUAL\_EDITING NODE\_ID="11" YCOORD="140" XCOORD="12" /> <ACTIVITY VISUAL EDITING NODE ID="18" YCOORD="330" XCOORD="47" /> <ACTIVITY VISUAL EDITING NODE\_ID="21" YCOORD="50" XCOORD="60" /> <ACTIVITY VISUAL\_EDITING NODE\_ID="26" YCOORD="200" XCOORD="294" /> <ACTIVITY\_VISUAL\_EDITING NODE\_ID="39" YCOORD="70" XCOORD="294" /> <ACTIVITY VISUAL EDITING NODE ID="52" YCOORD="320" XCOORD="304" /> <ACTIVITY\_VISUAL\_EDITING NODE\_ID="65" YCOORD="200" XCOORD="408" /> <ACTIVITY VISUAL EDITING NODE ID="72" YCOORD="70" XCOORD="408" /> <ACTIVITY\_VISUAL\_EDITING NODE ID="79" YCOORD="320" XCOORD="428" /> <ACTIVITY VISUAL EDITING NODE ID="87" YCOORD="200" XCOORD="537" /> <ACTIVITY VISUAL EDITING NODE ID="108" YCOORD="430" XCOORD="359" /> <ACTIVITY\_VISUAL \_EDITING NODE ID="116" YCOORD="420" XCOORD="587" /> <ACTIVITY\_VISUAL\_EDITING NODE\_ID="125" YCOORD="320" XCOORD="580" /> <ACTIVITY VISUAL EDITING NODE ID="152" YCOORD="200" XCOORD="160" /> </DF WORKFLOW EDITOR> </DF WORKFLOW>



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# FIG. 22A

2201

<DP QUERY DEF VERSION="1"> <DPA\_IDENTIFIERS DATA\_SET="OAS" WH \_OWNER\_NAME="PART"/> <HINTS/> <COLUMN DEFS> <COLUMN\_DEF SUMMARY\_TYPE="SUM" COLUMN\_NAME="PTD\_BUDGET" COLUMN ALIAS="PTD BUDGET" COLUMN SORT ORDER="3" COLUMN\_SORT\_ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN\_EXPR="" COLUMN\_POSITION="3" TABLE\_ALIAS="INCOME STMT A" COLUMN TAG="PTD BUDGET"/> <COLUMN\_DEF SUMMARY\_TYPE="NONE" COLUMN\_NAME="LINE\_NAME"</p> COLUMN\_ALIAS="LINE NAME" COLUMN SORT\_ORDER="1" COLUMN SORT ATTRIBUTE="ASC" COLUMN\_TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="1" TABLE ALIAS="INC STMT LINES D" COLUMN TAG="LINE NAME"/> <COLUMN\_DEF SUMMARY TYPE="SUM"</pre> COLUMN\_NAME="PTD\_VARIANCE\_PCT" COLUMN\_ALIAS="PTD\_VARIANCE\_PCT" COLUMN SORT ORDER="6" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="6" TABLE ALIAS="INCOME STMT\_A" COLUMN TAG="PTD\_VAR\_PCT"/> <COLUMN\_DEF SUMMARY\_TYPE="NONE"</p> COLUMN NAME="DEPARTMENT\_DESC" COLUMN ALIAS="DEPT DESC" COLUMN\_SORT\_ORDER="2" COLUMN\_SORT\_ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="2" TABLE\_ALIAS="DEPARTMENT D" COLUMN TAG="DEPT DESC"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE"</p> COLUMN ALIAS="PTD VARIANCE" COLUMN SORT ORDER="5" COLUMN\_SORT\_ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN\_EXPR="" COLUMN\_POSITION="5" TABLE\_ALIAS="INCOME\_STMT\_A" COLUMN TAG="PTD VAR"/> <COLUMN\_DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD ACTUAL" COLUMN ALIAS="PTD ACTUAL" COLUMN SORT ORDER="4" COLUMN SORT ATTRIBUTE="NONE" COLUMN\_TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="4" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD ACTUAL"/> </COLUMN DEFS>

#### **FIG. 22B**

2202

<TABLE DEFS> <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D"/> <TABLE DEF TABLE ALIAS="AP INV DETAIL F" TABLE NAME="AP INV DETAIL F"/> <TABLE DEF TABLE ALIAS="INCOME STMT A" TABLE NAME="INCOME STMT A"/> <TABLE\_DEF TABLE ALIAS="DEPARTMENT D" TABLE NAME="DEPARTMENT D"/> <TABLE DEF TABLE ALIAS="INC STMT LINES D" TABLE NAME="INC STMT LINES D"/> </TABLE DEFS> <DETAIL FILTERS> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="PERIOD KEY"</pre> TABLE\_ALIAS="AP\_INV\_DETAIL\_F" FILTER\_PREC\_OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">DEC-97</FILTER VALUE> </FILTER> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"</pre> TABLE\_ALIAS="VENDOR\_D" FILTER PREC OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE/ FILTER VALUE> </FILTER> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY" TABLE\_ALIAS="AP\_INV\_DETAIL\_F" FILTER\_PREC\_OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">01</FILTER VALUE> </FILTER> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="DEPARTMENT KEY"</pre> TABLE\_ALIAS="AP\_INV\_DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">560</FILTER VALUE> </FILTER> </DETAIL FILTERS> <AGGREGATE FILTERS> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="SUM(INVOICE LINE AMOUNT)" TABLE ALIAS="AP INV DETAIL F" FILTER\_PREC\_OPER="AND" FILTER OPERATOR=">"> <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE> </FILTER> </AGGREGATE FILTERS> </DP QUERY DEF>

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#### FIG. 23A

2301

- < DP SCHEMA DOC VERSION="1"> <DPA QUERY SERVER INFO SERVICE="DPA QUERY SERVER"</p> MACHINE="EXH 2K" PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM" WAREHOUSE DBNAME="DEMO30" WAREHOUSE OWNER="RROC" SCHEMA="AP INV DETAIL F" DATA SET="NW">FOODADDY</ DPA QUERY SERVER INFO> - <DP DIMENSIONS> - <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING DATE D"> <a tribute label="accounting date key" NAME="ACCOUNTING DATE KEY" /> <a tribute label="accounting month" name="accounting month" /> <ATTRIBUTE LABEL="ACCOUNTING PERIOD" NAME="ACCOUNTING PERIOD" /> <a tribute label="accounting period key"</a> NAME="ACCOUNTING PERIOD KEY" /> <a tribute label="accounting period quarter" NAME="ACCOUNTING PERIOD QUARTER" /> <attribute label="accounting quarter" NAME="ACCOUNTING QUARTER" /> <a tribute label="accounting week ending" NAME="ACCOUNTING\_WEEK\_ENDING" /> <ATTRIBUTE LABEL="ACCOUNTING YEAR" NAME="ACCOUNTING YEAR" /> </DIMENSION> - <DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT D"> <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" /> <attribute label="line name" name="line name" /> <a tribute label="line sequence key" name="line sequence key" /> <a triangle <a tri <ATTRIBUTE LABEL="REPORT SEQUENCE" NAME="REPORT SEQUENCE" /> <a tribute label="account key" name="account key" /> <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT DESC" /> </DIMENSION> - <DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT RLUP D"> <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" /> <a tribute label="account key" name="account key" /> <a tribute label="account rollup description"</a> NAME="ROLLUP DESC" /> <ATTRIBUTE LABEL="ACCOUNT ROLLUP CODE" NAME="ROLLUP CODE" /> <ATTRIBUTE LABEL="ACCOUNT DESCRIPTION" NAME="ACCOUNT DESC" /> </DIMENSION>

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#### **FIG. 23B**

2302

- <DIMENSION LABEL="AP HOLD CODES" NAME="AP\_HOLD\_CODE\_D"> <ATTRIBUTE LABEL="AP HOLD CODE" NAME="AP HOLD CODE" /> <a tribute label="AP HOLD CODE DESCRIPTION" NAME="AP HOLD CODE DESC" /> <ATTRIBUTE LABEL="AP HOLD CODE KEY" NAME="AP\_HOLD\_CODE\_KEY" /> <ATTRIBUTE LABEL="AP HOLD CODE TYPE" NAME="AP HOLD CODE TYPE" /> </DIMENSION> - <DIMENSION LABEL="AP HOLD STATUS" NAME="AP\_HOLD\_STATUS\_D"> <ATTRIBUTE LABEL="AP HOLD STATUS" NAME="AP\_HOLD\_STATUS" /> <attribute label="ap hold status key" name="ap\_hold\_status\_key" / </DIMENSION> - <DIMENSION LABEL="AP INVOICES" NAME="AP INVOICE D"> <ATTRIBUTE LABEL="AP INVOICE NUMBER" NAME="AP INVOICE" /> <ATTRIBUTE LABEL="AP INVOICE DATE" NAME="AP\_INVOICE\_DATE" /> <attribute label="ap invoice key" name="ap invoice key" /> </DIMENSION> - <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP INVOICE TYPE D"> <ATTRIBUTE LABEL="AP INVOICE TYPE" NAME="AP INVOICE TYPE" /> <attribute label="ap invoice type key" name="ap\_invoice\_type\_key" / </DIMENSION> - <DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP PAYMENT TERM D"> <a href="AP-PAYMENT TERM" NAME="AP-PAYMENT\_TERM" /> <a triple><attribute label="ap payment term description"</a> NAME="AP\_PAYMENT TERM DESC" /> <ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP PAYMENT TERM\_KEY" /> </DIMENSION> - <DIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER D"> <ATTRIBUTE LABEL="AUTHORIZER" NAME="AUTHORIZER" /> <a triple><attribute label="authorizer key" name="authorizer key" /></a> </DIMENSION> - <DIMENSION LABEL="BUYERS" NAME="BUYER\_D"> <ATTRIBUTE LABEL="BUYER" NAME="BUYER" /> <attribute label="authorization limit"

<ATTRIBUTE LABEL="END DATE ACTIVE" NAME="BUYER END\_DATE\_ACTIVE" />

<attribute label="Start date active" NAME="BUYER\_START\_DATE\_ACTIVE" /> </DIMENSION>

NAME="BUYER AUTHORIZATION LIMIT" />

<attribute label="buyer key" name="buyer key" />

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```
FIG. 23C
                                                                                                                                                             2303
- <DIMENSION LABEL="COMPANY" NAME="COMPANY D">
   <attribute label="company" name="company" />
   <ATTRIBUTE LABEL="COMPANY DESCRIPTION" NAME="COMPANY_DESC" />
   <attribute label="company key" name="company_key" />
   </DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY_D">
   <attribute label="currency" name="currency" />
   <attribute label="currency description" name="currency desc" />
   <attribute label="currency key" name="currency_key" />
   </DIMENSION>
 - <DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT D">
   <a tribute label="department" name="department" />
   <attribute label="department key" name="department_key" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" /</p>
   </DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT RLUP D">
   <ATTRIBUTE LABEL="DEPARTMENT" NAME="DEPARTMENT" />
   <ATTRIBUTE LABEL="DEPARTMENT ROLLUP DESC" NAME="ROLLUP DESC" />
   <a tribute label="department rollup code" name="rollup code" />
   <a tribute label="department description" name="department_desc" /
    <attribute label="department key" name="department_key" />
   </DIMENSION>
- <DIMENSION LABEL="AP DUE DATES" NAME="DUE_DATE_D">
    <attribute label="due date key" name="due date key" />
    <attribute label="due month" name="due_month" />
    <attribute label="due period" name="due period" />
    <attribute label="due period key" name="due_period_key" />
    <attribute label="due period quarter" name="due period quarter" />
    <attribute label="due quarter" name="due quarter" />
    <attribute label="due week ending" name="due week ending" />
    <attribute label="Due Year" name="Due Year" />
    </DIMENSION>
 - <DIMENSION LABEL="INVOICE DATES" NAME="INVOICE DATE D">
    <a tribute label="Invoice date key" name="invoice date key" />
    <ATTRIBUTE LABEL="INVOICE MONTH" NAME="INVOICE MONTH" />
    <a href="mailto:</a> <a href="https://www.example.com/">ATTRIBUTE LABEL="INVOICE PERIOD" />
    <a href="https://www.enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.com/enumous.c
    <a tribute label="INVOICE PERIOD QUARTER"
 NAME="INVOICE PERIOD QUARTER" />
    <attribute label="invoice quarter" name="invoice_quarter" />
    <a href="INVOICE"><a href="INV
    <ATTRIBUTE LABEL="INVOICE YEAR" NAME="INVOICE_YEAR" />
    </DIMENSION>
```

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```
2304
- <DIMENSION LABEL="JE BATCHS" NAME="JE_BATCH_D">
 <attribute label="actual flag" name="actual flag" />
 <attribute label="default period name"
NAME="DEFAULT PERIOD NAME" />
 <attribute label="je batch key" name="je_batch_key" />
 <attribute label="name" name="name" />
 <attribute label="org id" name="org_id" />
 <ATTRIBUTE LABEL="DESCRIPTION" NAME="DESCRIPTION" />
 <attribute label="date created" name="date_created" />
 </DIMENSION>
- <DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION D">
 <a tribute label="organization" name="organization" />
 <attribute label="organization key" name="organization_key" />
 <a tribute label="organization type" name="organization type" />
 </DIMENSION>
- <DIMENSION LABEL="PA PROJECTS" NAME="PA PROJECT D">
 <a tribute label="project key" name="pa_project_key" />
 <a tribute label="Project complete date"
NAME="PROJECT COMPLETE DATE" />
 <attribute label="project manager" name="project manager" />
 <attribute label="project name" name="project name" />
 <attribute Label="project number" name="project_number" />
 <attribute label="project officer" name="project officer" />
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Suite 1600 Portland Oregon (12) 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 98 of 103

**FIG. 23E** 2305 - <DIMENSION LABEL="PERIODS" NAME="PERIOD D"> <attribute label="period" name="period" /> <attribute label="period end date" name="period\_end\_date" /> <a tribute label="period key" name="period key" /> <a tribute label="period start date" name="period start date" /> <a tribute label="period type" name="period type" /> <attribute Label="Quarter" name="Quarter" /> <ATTRIBUTE LABEL="YEAR" NAME="YEAR" /> </DIMENSION> - <DIMENSION LABEL="PRODUCT" NAME="PRODUCT\_D"> <attribute label="product" name="product" /> <ATTRIBUTE LABEL="PRODUCT DESCRIPTION" NAME="PRODUCT\_DESC" /> <attribute label="product key" name="product\_key" /> </DIMENSION> - <DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT\_CLASS\_D"> <a tribute label="Project class category" NAME="PROJECT CLASS CATEGORY" /> <a href="PROJECT CLASS CODE" NAME="PROJECT\_CLASS CODE" / <a tribute label="Project class description" NAME="PROJECT\_CLASS\_DESCRIPTION" /> <a tribute label="project key" name="project key" /> </DIMENSION> - <DIMENSION LABEL="PO REQUESTORS" NAME="REQUESTOR D"> <attribute label="requestor" name="requestor" /> <a tribute label="requestor key" name="requestor key" /> </DIMENSION> - <DIMENSION LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT D"> <attribute label="sub-account" name="sub-account" /> <a tribute label="sub-account key" name="sub-account key" /> <a tribute label="SUB-ACCOUNT DESCRIPTION" NAME="SUB ACCOUNT DESC" /> </DIMENSION> - <DIMENSION LABEL="AP VENDORS" NAME="VENDOR D"> <ATTRIBUTE LABEL="ACTIVE END DATE" NAME="ACTIVE END DATE" /> <attribute label="active flag" name="active flag" /> <ATTRIBUTE LABEL="ACTIVE START DATE" NAME="ACTIVE START DATE" /> <a tribute label="vendor site address line1" name="address line1" /> <a tribute label="vendor site address line2" Name="address line2" /> <a tribute label="vendor site address line3" name="address line3" /> <a tribute label="vendor site area code"; name="area code" /> <a tribute label="vendor site city" name="city" /> <a tribute label="Vendor Hold Reason" NAME="Hold Reason" /> <a tribute label="Vendor site phone number" name="phone\_number" /

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Street 600 Fontland, Olegon 1229 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 99 of 103

#### 2306 FIG. 23F <ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" /> <a tribute label="vendor site state" name="state" /> <attribute label="vendor tax federal flag" NAME="TAX FEDERAL REPORT FLAG" /> <a tribute label="vendor tax reporting name" NAME="TAX REPORTING NAME" /> <attribute label="vendor tax state flag" NAME="TAX STATE REPORT FLAG" /> <attribute Label="Vendor 1099 Number" Name="Vendor 1099 Num" /> <a tribute label="Vendor 1099 Type" NAME="Vendor 1099 Type" /> <attribute label="Vendor corporate group" NAME="VENDOR CORPORATE GROUP" /> <attribute label="vendor industry class" NAME="VENDOR INDUSTRY CLASS" /> <attribute label="vendor key" name="vendor key" /> <attribute label="vendor name" name="vendor name" /> <attribute label="vendor number" name="vendor number" /> <ATTRIBUTE LABEL="VENDOR ORGANIZATION TYPE"</p> NAME="VENDOR ORG TYPE" /> <attribute label="vendor payment priority" NAME="VENDOR PAYMENT PRIORITY" /> <ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR PAY GROUP" /> <a tribute label="vendor site code" name="vendor site code" /> <a tribute label="vendor site key" name="vendor site key" /> <attribute label="vendor type" name="vendor\_type" /> <attribute label="vendor site zip" name="zip" /> </DIMENSION> - <DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F"> <a tribute label="accounting date" name="accounting date" /> <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING DATE KEY"</p> <attribute label="account key" name="account key" /> <attribute label="approval status" name="approval status" /> <attribute label="ap invoice key" name="ap invoice key" /> <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP INVOICE TYPE KEY" /> <ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP\_PAYMENT\_TERM\_KEY"</p> <attribute label="buyer key" name="buyer key" /> <attribute label="company key" name="company key" /> <ATTRIBUTE LABEL="INVOICE CURRENCY CODE" NAME="CURRENCY KEY" /> <attribute label="department key" name="department key" /> <attribute label="due date" name="due date" /> <a tribute label="due date key" name="due date key" /> <ATTRIBUTE LABEL="TOTAL INVOICE AMOUNT" NAME="INVOICE AMOUNT" /> THERE IS A. J.

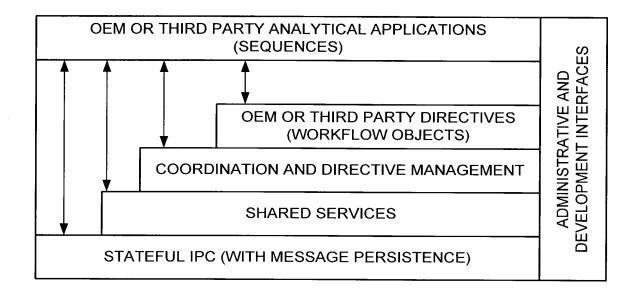
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Pontland, Oregon L. 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 100 of 103

#### **FIG. 23G**

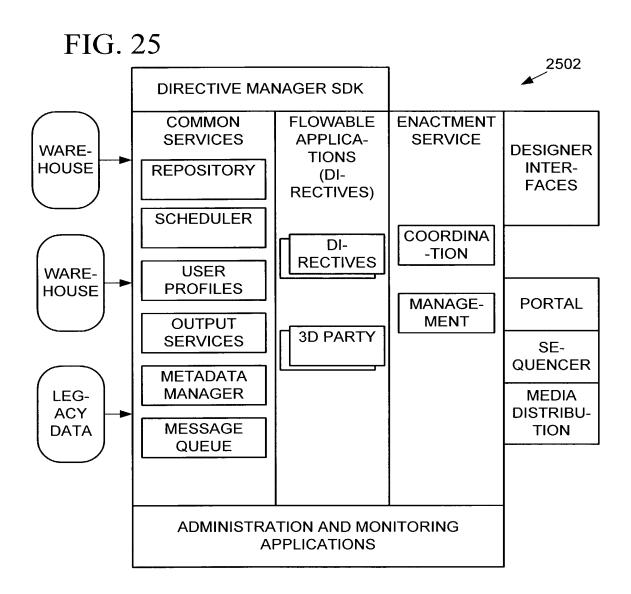
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street Suite 1600 Portland, Oregon 97204, (503) 226-7391, Inventor: Scheurich et al., Title: SYSTEMS AND METHODS FOR GENERATING INFORMATION FROM A DATA COLLECTION TO SUPPORT DECISION-MAKING, Application No. 09/925,125, Filed: August 9, 2001, Attorney Docket No.: 6115-58351, Page 101 of 103

FIG. 24









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FIG. 26

